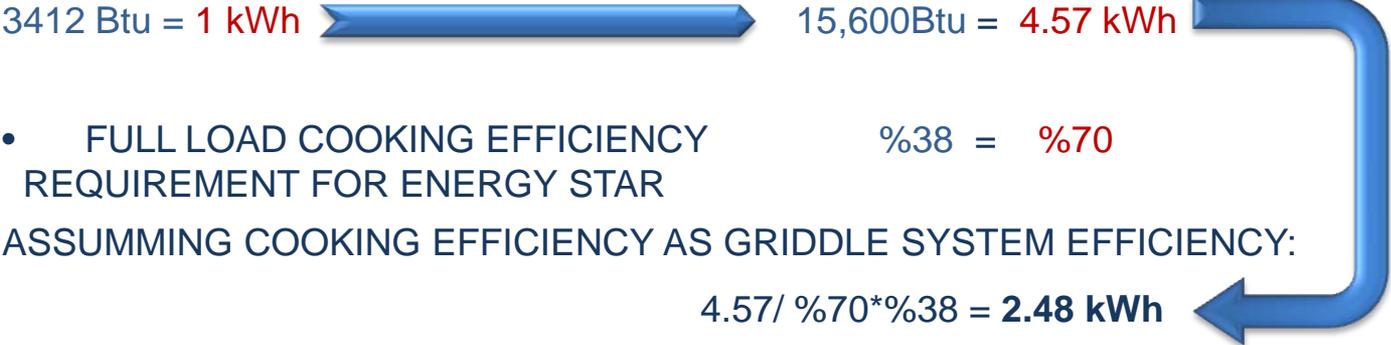


# GRIDDLE ENERGY STAR PROGRAM

- 1. **As electric griddles data set is insufficient; idle energy rating for electric griddles can be calculated based on the gas unit data set.**

The electric griddle data set includes ten units and can not be considered as representative for the current electric griddle market. EPA's Tier approach would be valid if the initial release of idle energy rate requirement is set higher than 320 Watt/ft<sup>2</sup>. This will allow to capture all the new electric griddle data. Controversially, setting the idle energy rate low will create marketing advantage for certain manufacturers and prevent EPA to capture all the new griddle data.

**3' GAS GRIDDLE IDLE ENERGY RATING:**



**VULCAN PROPOSAL: 408 Watt/ft<sup>2</sup>**

## ELECTRIC GRIDDLE COMPARISON

*Data set is available at Food Service Technology Center website  
<http://www.fishnick.com/publications/appliancereports>*

	WELLS G-23	VULCAN RRE36	IMPERIAL ITG-36-E	ACCUTEMP EG2083A36
<sup>a</sup> Measured Energy Input Rate (kW)	15.6	16.1	11.4	14.91
<b>Preheat to 375 °F</b>				
<sup>b</sup> Duration(min)	10.8	7.5	10.5	19.2
<sup>c</sup> Electric Energy Consumption(kWh)	2.52	1.89	1.71	4.76
<sup>d</sup> Preheat Rate (°F/min)	28.1	40.6	28.9	15.6
<b>Idle @ 375 °F</b>				
<sup>e</sup> Idle Energy Rate (kW)	1.45	2.49	1.26	2.44
<b>Heavy Load Cooking Efficiency</b>				
<sup>f</sup> Load Size	24	24	24	30
<sup>g</sup> Cook Time(min)	7.5	7.1	8.19	7.2
<sup>h</sup> Average Recovery Time(min)	4.07	1.03	3.87	1
<sup>i</sup> Electric Cooking Energy Rate(kW)	5.57	7.97	5.39	11.1
<sup>j</sup> Cooking Energy Efficiency(%)	75.3±0.6	76±1.7	77±3.4	72.7±3.3
<sup>k</sup> Production Capacity(lb/h)	31.4±2.3	44.6±2.0	29.7±1.1	57.3±2.6
<b>Production Energy Rate (<i>i/k</i>) (KWh/lb)</b>	<b>0.177</b>	<b>0.179</b>	<b>0.181</b>	<b>0.194</b>

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Production Capacity(lb/h)	31.4±2.3	44.6±2.0	29.7±1.1	57.3±2.6

**2. ORLANDO Meeting Notes, Test Procedures section mentions the concerns about Production Rate;**

- Considering the above data cooking energy is NOT tied to production rate, further investigation required for clarification. Production Capacity needs to be considered for Energy Star calculations.
  - In order to get the same production rate of a 36" Vulcan Griddle, customer should buy at least a 48" Wells griddle which will have a higher idle energy rating.

**3. ORLANDO Meeting Notes, Test Procedures Conclusion section indicates the presence of high production capacity & low idle energy rated griddles;**

- Please verify these models and manufacturers

MATRIX FOR COMBINATION GRIDDLES:		MODULAR TOP SIDE	
		Energy Star	NON-Energy Star
BOTTOM GRIDDLE	Energy Star	✓	✓/X
	NON-Energy Star	✓/X	X

- If Non-energy star bottom griddle furnished with energy star top platens it may or may not meet the energy star requirements.
- If energy star bottom griddle furnished with Non-energy star top platens it may or may not meet the energy star requirements.

#### 4. Double-Sided, Partial Platens section in ORLANDO Meeting Notes;

- Why %80? If any analysis conducted to get this specific number, please provide us some insight.
  - ❖ All the units with top platens should test and qualify both requirements. Otherwise double sided units in ✓/X Zones will stay uncertain.
 

❑ Garland offers;	24" with two/ one heads	%100/ %50
	36" with three/ two/ one heads	%100/ %67/ %50
❑ Taylor offers;	12" with one head	%100
	24" with two/ one heads	%100/ %50
❑ Keating offers;	Up to 72" Up to 6 heads	Any percentage
❑ Vulcan offers;	Up to 72" Up to 6 heads	Any percentage