

## Greenplate PID Inbench Electric BBQ Unit Power and Temperature Results



### Introduction

The objective of the test is to determine the power usage and monitor how the BBQ maintains the temperature at the cooking plate throughout the 28-minute cooking cycle.

The below results show the temperature and power graphs for a Greenplate Inbench Electric BBQ Unit set at 240°C and 300°C at the cooking plate. The results are without a food load.

### Test Parameters

The tests were performed on different days with specific weather conditions recorded for the time and date the test was undertaken.

**Test Location:** Greenplate Head Office Outdoor Testing Area

**Test Equipment:** 1 – EDMI MK7C Atlas, 2 – Fluke 54IIB, 3 – Digitech QM1601

Test 2 - 300°C - No Food Load Summary	
<b>Date and Time:</b>	02/09/2021 9:28:04 AM Start
<b>Ambient Temperature:</b>	21.9°C
<b>Wind Speed/Direction:</b>	15 Km/h W
<b>BBQ Set Temperature:</b>	300°C
<b>Time to reach set temperature:</b>	09:00
<b>Duration of Test:</b>	28 minutes 00 seconds
<b>Total Power Consumption:</b>	619 watts

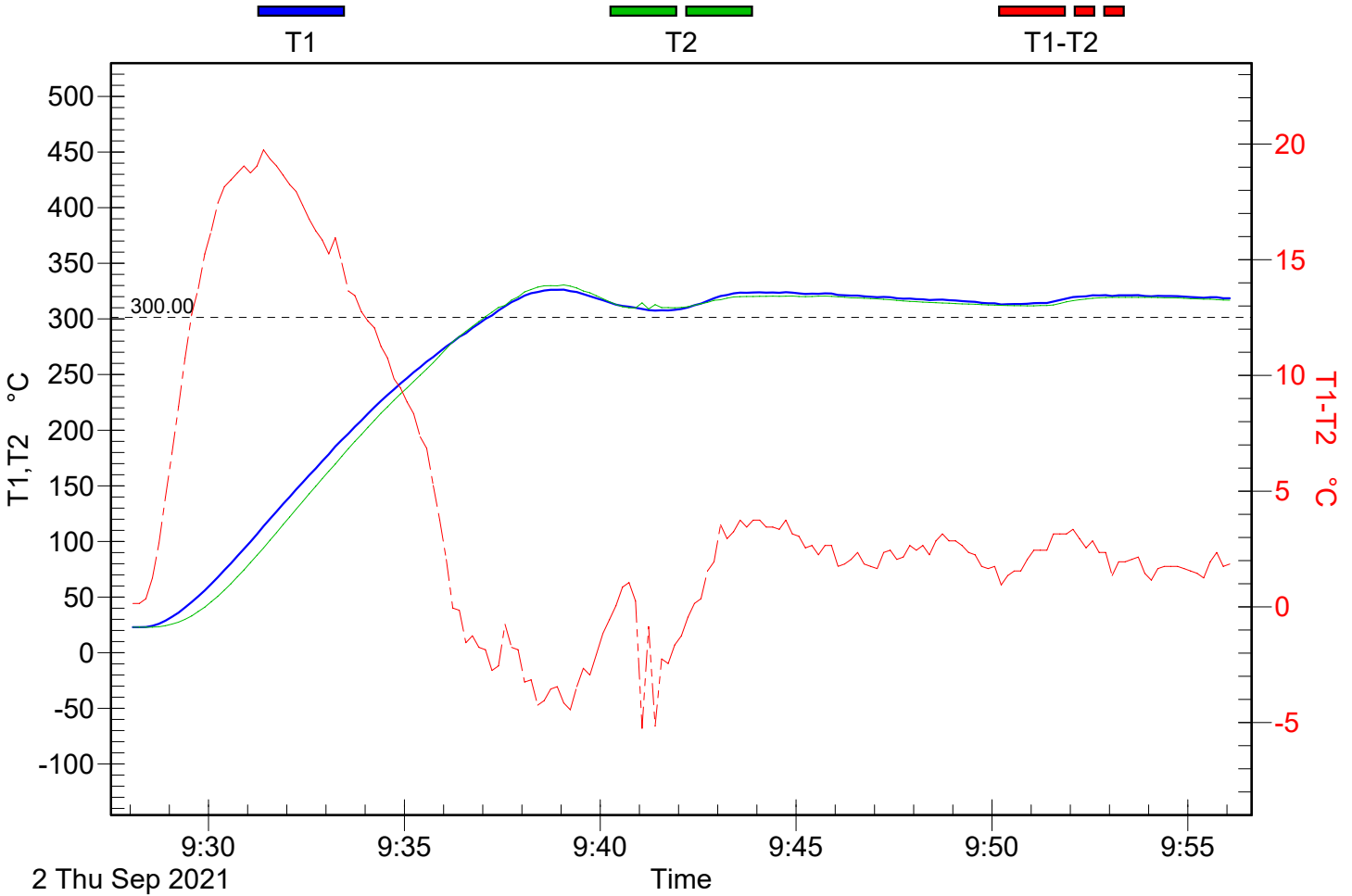
*Please refer to Correlation between plate temperature and thermocouple channel temperature 300°C Full Report (attached)*

Start Time	2/09/2021 9:28:04 AM				
Stop Time	2/09/2021 9:56:04 AM				
Elapsed Time	0:28:00				
Interval	0:00:10				
Total readings	169				
Thermocouple Type	K				
Scaling	(none)				
	Max Time Stamp	Max	Average	Min	Min Time Stamp
T1	2/09/2021 9:39:04 AM	326.3 °C	265.6 °C	22.9 °C	2/09/2021 9:28:04 A
T2	2/09/2021 9:39:04 AM	330.6 °C	261.5 °C	22.9 °C	2/09/2021 9:28:04 A
T1-T2	2/09/2021 9:31:24 AM	19.6 °C	4.1 °C	-5.4 °C	2/09/2021 9:41:04 A

**Test Purpose:**

This test was conducted to determine the amount of power used to heat up the BBQ from 22.9°C to 300°C. Including the time it takes from start up to reaching the set temperature.

**Graph Name:** Correlation Between Plate Temperature and Thermocouple Channel Temperature



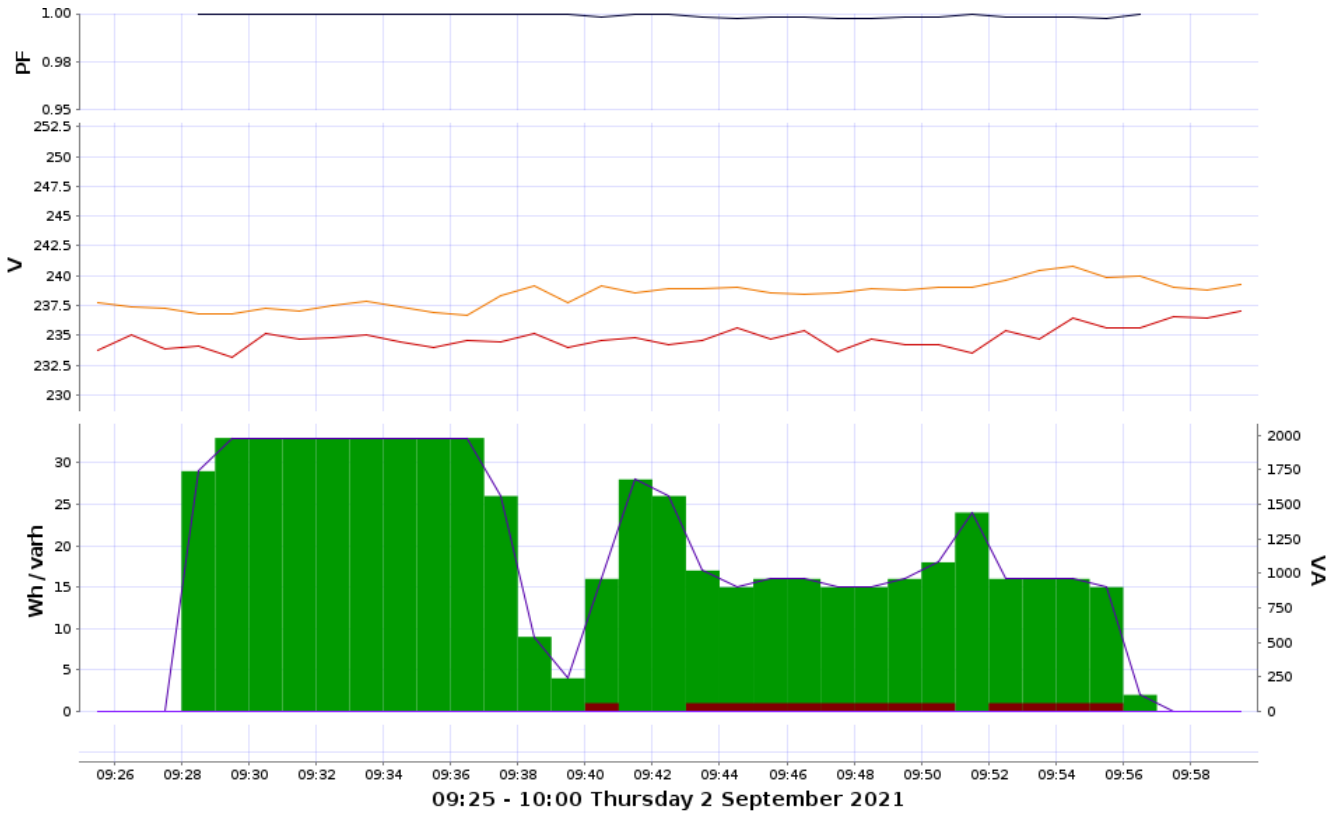
**Test Conditions:** T1 (Thermocouple 1) was positioned to the BBQ cooking surface directly above the Thermocouple channel. T2 (Thermocouple 2) was located inside the Thermocouple channel beneath the cooking plate. The BBQ Thermocouple which controls the regulation of the Temperature Module is also located in this same channel. Ambient local temperature was 21.9°C. Ambient Plate temperature 22.9°C. Set temperature on the BBQ Temperature Module was 300°C.

	T1	T2	T1-T2	Time Stamp
115	319.5 °C	318.0 °	1.5 °C	2/09/2021 9:47:04 AM
116	319.8 °C	317.6 °	2.2 °C	2/09/2021 9:47:14 AM
117	319.5 °C	317.2 °	2.3 °C	2/09/2021 9:47:24 AM
118	318.6 °C	316.7 °	1.9 °C	2/09/2021 9:47:34 AM
119	318.2 °C	316.2 °	2.0 °C	2/09/2021 9:47:44 AM
120	318.3 °C	315.8 °	2.5 °C	2/09/2021 9:47:54 AM
121	317.8 °C	315.5 °	2.3 °C	2/09/2021 9:48:04 AM
122	317.6 °C	315.1 °	2.5 °C	2/09/2021 9:48:14 AM
123	316.9 °C	314.8 °	2.1 °C	2/09/2021 9:48:24 AM











## Time Interval - EDMI BNE Portable 214048390

Custom Date Range in 1 Minute intervals  
 Thu 02 Sep 2021 09:25 - Thu 02 Sep 2021 10:00 (GMT+10:00)

Greenplete BBQ's / EDMI BNE Portable 214048390 - BBQ3



### Usage Summary

Key	Series	Intervals	Minimum	Maximum	Average	Total
	Wh Consumption E1	35 mins	0 Wh Thu 02 Sep 2021 09:26	33 Wh Thu 02 Sep 2021 09:30	17.69 Wh	619 Wh
	varh Consumption Q1	35 mins	0 varh Thu 02 Sep 2021 09:26	1 varh Thu 02 Sep 2021 09:41	0.37 varh	13 varh
	VA Consumption	35 mins	0 VA Thu 02 Sep 2021 09:26	1,980 VA Thu 02 Sep 2021 09:30	1,061.84 VA	
	PF Consumption	29 mins	1.00 PF Thu 02 Sep 2021 09:45	1.00 PF Thu 02 Sep 2021 09:29	1.00 PF	
	Wh Generation B1	35 mins	0 Wh Thu 02 Sep 2021 09:26	0 Wh Thu 02 Sep 2021 09:26	0 Wh	0 Wh
	varh Generation K1	35 mins	0 varh Thu 02 Sep 2021 09:26	0 varh Thu 02 Sep 2021 09:26	0 varh	0 varh
	VA Generation	35 mins	0 VA Thu 02 Sep 2021 09:26	0 VA Thu 02 Sep 2021 09:26	0 VA	
	PF Generation	0				
	V Max	35 mins	236.63 v Thu 02 Sep 2021 09:37	240.75 v Thu 02 Sep 2021 09:55	238.45 v	
	V Min	35 mins	233.21 v Thu 02 Sep 2021 09:30	237.04 v Thu 02 Sep 2021 10:00	234.8 v	