

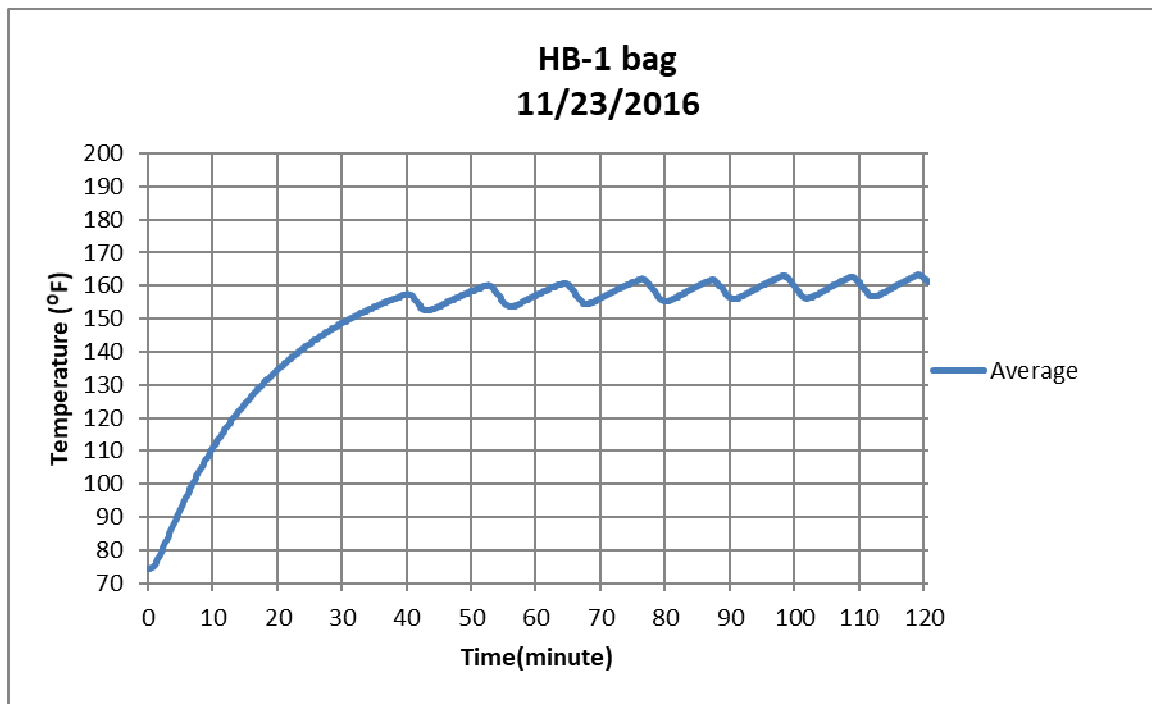
System Design Specification
Check Engineering # HB-1_HB-2_HB-XW_SPEC_a

Description	Part #	Quantity
Element	HB-ELEMENT-LS	1 Each
HB-1 Bag Shell	HB-1R	1 Each for HB-1
HB-2 Bag Shell	HB-2R	1 Each for HB-2
HB-XW Bag Shell	HB-XWR	1 Each for HB-XW
US 6 Position Power Distribution Unit	PDU-6-US	Buy separately
International 6 Position Power Distribution Unit	PDU-6-INTL	Buy separately

Temperature Performance

1) HB-1 Bag

Temperature Performance		
Number of distinct temperature settings	1	
Setting #1 Air temperature (Max)	72/162	°C/°F
• Under ambient condition	24/75	°C/°F



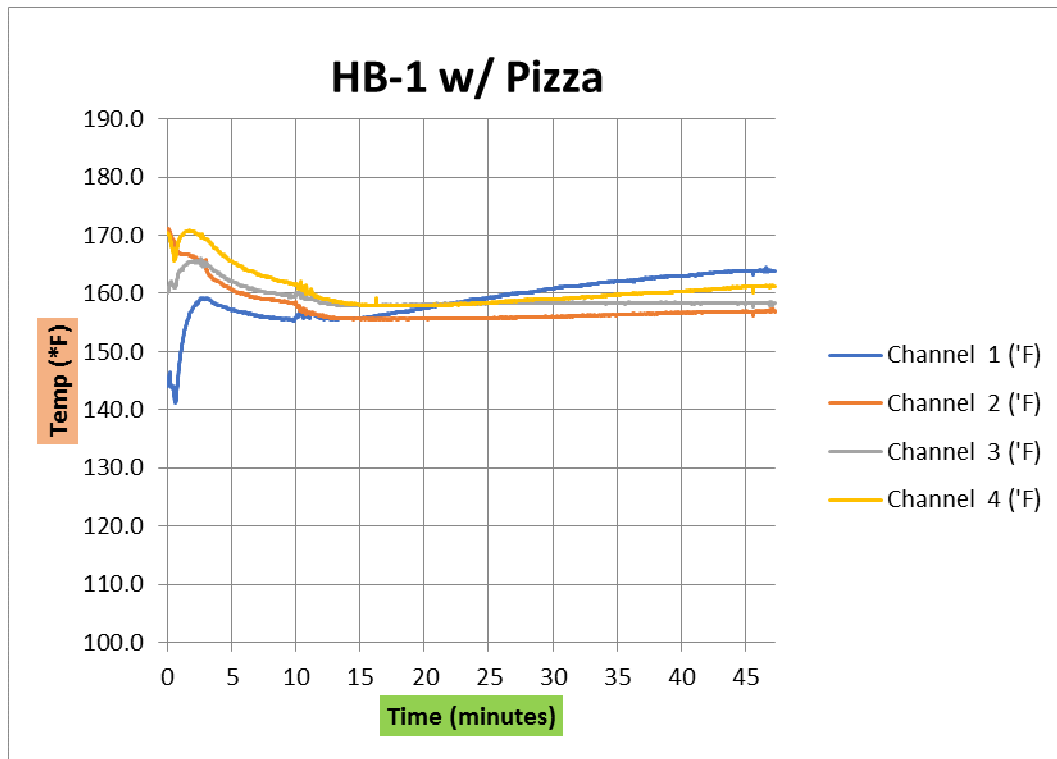
The bag is empty during this testing.

Pizza Bag Test Procedure:

Test was done in a pizza store. A standard bag shell of HB-1R was laid on a table close to the oven. When a 16" pizza was cooked, took it out of the oven and placed into the delivery box directly. Sliced it to 10 pieces. Started to record the temperature of 2 thermocouples. Placed the box into the bag and opened the lid partially to place the 2 thermocouples between the dough and topping of the pizza. Closed the bag. Moved the bag out of kitchen.



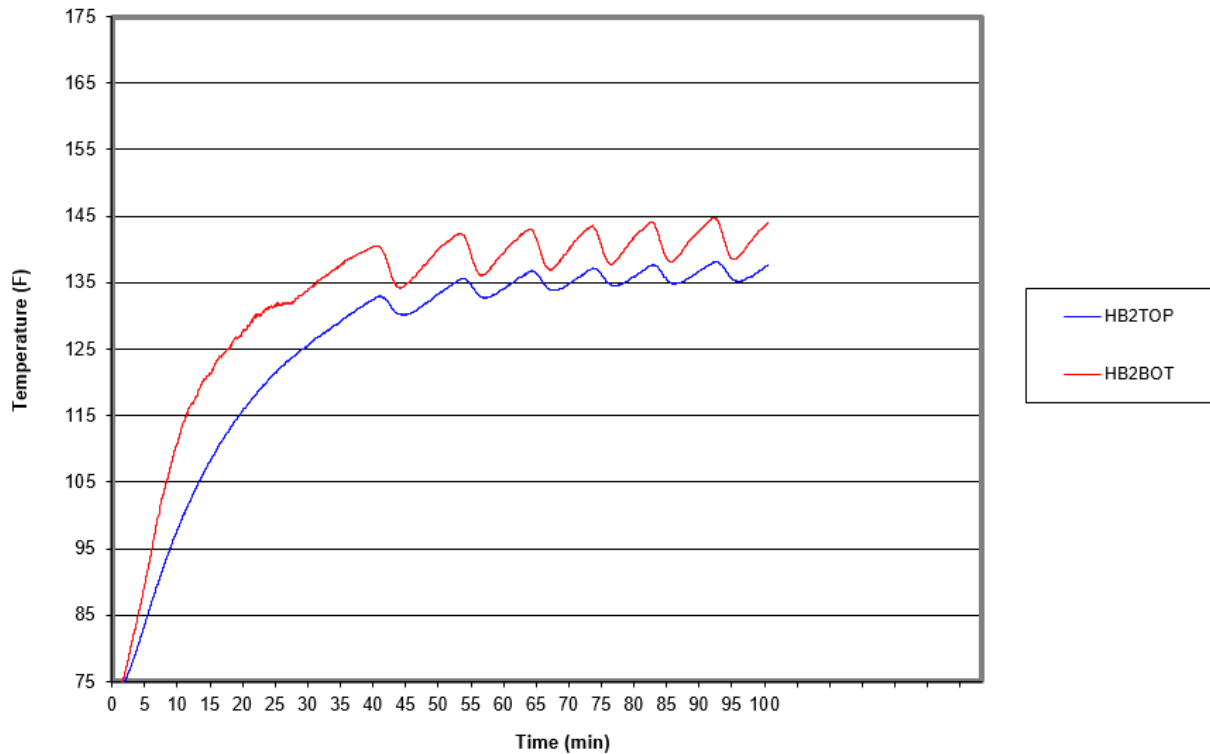
	Requirement	Actual
Minimum Temperature of pizza after taken out from oven for 30 minutes.	≥145 °F	158 °F



2) HB-2 BAG

Temperature Performance		
Number of distinct temperature settings	1	
Setting #1 Air temperature(Max)	62/145	°C/°F
<ul style="list-style-type: none"> Under ambient condition 	24/75	°C/°F

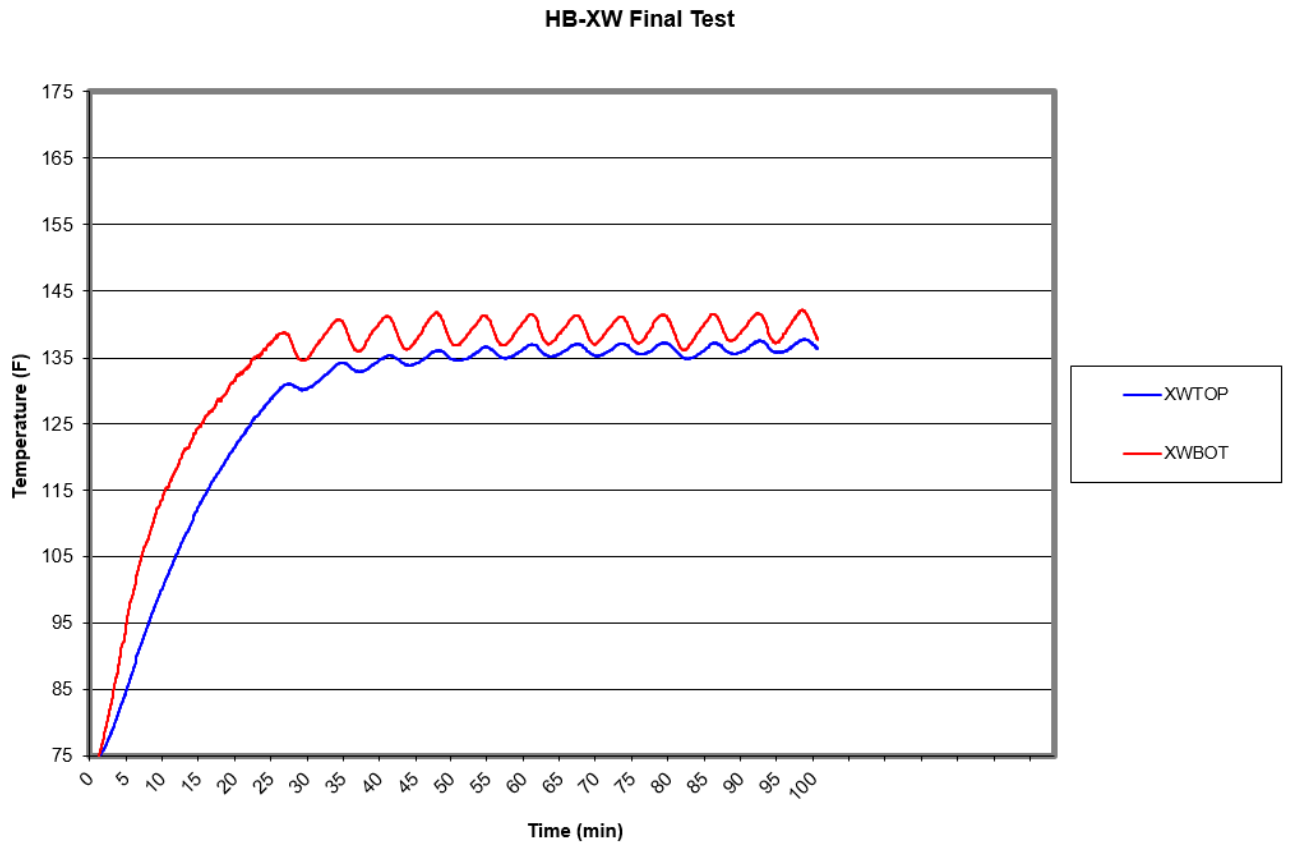
HB-2 Final Test



The bag is empty during this testing.

3) HB-XW BAG

Temperature Performance		
Number of distinct temperature settings	1	
Setting #1 Air temperature(Max)	60/141	°C/°F
<ul style="list-style-type: none"> Under ambient condition 	24/75	°C/°F



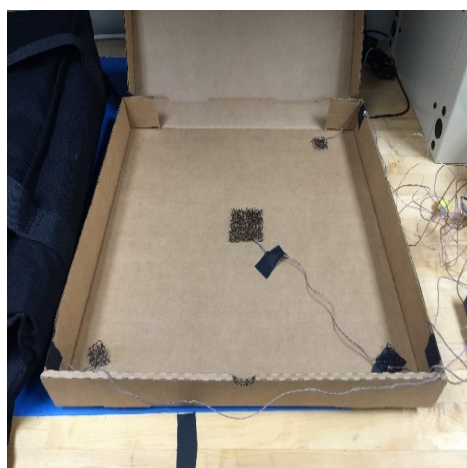
The bag is empty during this testing.

Power Requirements		
Supply (nominal)	13.2	VDC
Current (typical)	4.9	A
Power (typical)	65	W

Heated Area		
Top Element		
• Width	427	mm
• Length	394	mm
• Watt density	26	mW/cm ²
• Resistance	1.35 (± 10%)	Ω
• Adhesive type	Acrylic 300°F	
• Adhesive thickness	0.127	mm
Bottom Element		
• Width	427	mm
• Length	394	mm
• Watt density	26	mW/cm ²
• Resistance	1.33 (± 10%)	Ω
• Adhesive type	Acrylic 300°F	
• Adhesive thickness	0.127	mm
○ Hookup Wire	SPT-1 18 AWG	
○ Connector type	AMP 1-350345-0	
Two elements wire in series		

Bag tested:

HB-1 Bag Internal Dimensions 18"Lx18"Wx5.5"H



HB-2 Bag Internal Dimensions 18"Wx20"Lx12.5"H



HB-XW Bag Internal Dimensions 20"Wx20"Lx8.5"H



Environmental:

Temperature	-20 to 48	°C
	-20 to 118	°F
Humidity	5 – 90	%