



October 7, 2008

Mr. Guy Lamstaes
Universal Master Products Ltd.
23 Station Approach
Hayes, Kent, BR2 7EX
United Kingdom

Subject: ANSI/NSF Standard: P235
Report Number: 4K550-0001-000
Addendum: 001
Model Number(s): EC101 ECUBE, EC102 TCUBE
Plant(s) at: Gravesend, Kent UK

Replaced Page(s): Entire Sections A & G
Added Page(s): E10-31, I3-4

Dear Mr. Lamstaes :

Enclosed is a CD of important updated information pertaining to your product(s) evaluated at NSF International. This information has been registered as a Documentation Report Addendum and must be retained on file at the plant location(s) for review by the NSF Field Representatives conducting annual/follow-up audits. The reports are identified by the Documentation Report number (DR #4K550-0001-000) referenced above. Please forward the Registered Documentation Report Addendum to the appropriate plant(s). This CD contains the complete Documentation Report and will replace existing paper or electronic copies. NSF Field Representatives will reference most current version of the Documentation Report.

Original CD must be forwarded to plant location. An NSF audit of your plant, including materials/process verification, will be guided by this information. Failure to maintain this information at the plant may require special follow-up audits or removal of products from Listing.

Only those specific design and construction details and materials indicated in the Registered Documentation Reports are authorized for use in NSF Certified products. To obtain authorization for an alternate supplier or design or construction change (or other modification), please contact your Certification Project Manager to initiate the evaluation. As a reminder, you are not permitted to make any changes to Certified products without prior written approval from NSF International.

If you have any questions, please contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "Ponsele".

Sofie Ponsele
Certification Project Manager
Food Equipment Program
(322) 761-7401
E-mail: sponsele@nsf.org



May 22, 2008

Mr. Guy Lamstaes
Universal Master Products Ltd.
23 Station Approach
Hayes, Kent, BR2 7EX
United Kingdom

Subject: ANSI/NSF Standard: P235
Report Number: 4K550-0001-000
Model Number(s): EC101 ECUBE, EC102 TCUBE
Plant(s) at: Gravesend, Kent UK

Dear Mr. Lamstaes :

Enclosed is a copy of important information pertaining to your product(s) evaluated at NSF International. This information has been registered as a Documentation Report and must be retained intact and on file at the plant location(s) referenced above for review by the NSF Field Representatives conducting annual/follow-up audits. The reports are identified by the Documentation Report number (DR# 4K550-0001-000) referenced above. Please forward the Registered Documentation Report(s) to the appropriate plant(s). You may want to provide a copy of this letter to each of your plants.

An NSF audit of your plant, including materials/process verification, will be guided by this information. Failure to maintain this information at the plant may require special follow-up audits or removal of products from Listing.

Only those specific design and construction details and materials indicated in the Registered Documentation Reports are authorized for use in NSF Certified products. To obtain authorization for an alternate supplier or design or construction change (or other modification), please contact your Certification Project Manager to initiate the evaluation. As a reminder, you are not permitted to make any changes to Certified products without prior written approval from NSF International.

If you have any questions, please contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "Ponselee", with a horizontal line drawn through it.

Sophie Ponselee
Certification Project Manager
Food Equipment Program
(322) 761-7401
E-mail: sponsee@nsf.org

General Information

**NSF International
Documentation Report
Per Unit of Family of Similar Units**

I. General Information

A. General Description of Equipment:

Temperature Mimicking Sensor

B. Model Number(s):

Endocube EC101
Endocube EC102
Endocube EC103

C. Description of Model Differences:

The three models cater to different size sensors

D. Intended End Use / Use Limitations (if applicable):

Food monitoring and refrigeration control, not intended for use in open fruit and vegetable display cases.

E. Use Limitations (if applicable)

Not intended to monitor air temperature of the refrigerated location.

Food Zone Parts List

FOOD ZONE PARTS LIST

Ref #	Part Description	Part #	Max Food Contact Area (sq. in.)	Material Type	Material/Part Supplier	Formulation ID/ Trade Name/ Alloy	Color	MFCR/Std/Policy
1	Casing	2	-	ABS	Chi-Mei	POLYAC PA-717C J01	Black	FDA §181.32
2	Front cover	3	-	ABS	Chi-Mei	POLYAC PA-717C J01	Black	
3	Sensor inlet	4	-	ABS	Chi-Mei	POLYAC PA-717C J01	Black	
4	Screw	5	-	ABS	Chi-Mei	POLYAC PA-717C J01	Black	
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Supporting Information for Food Zone Parts List



CHI MEI CORPORATION

59-J SAN CHIA, JEN TE, TAINAN COUNTY, TAIWAN R.O.C TEL: 886-6-266-5000 FAX: 886-6-266-5555-7

1/27/99

FDA CONFORMANCE FOR POLYLAC[®] PA-717C, PA-727 and PA-757

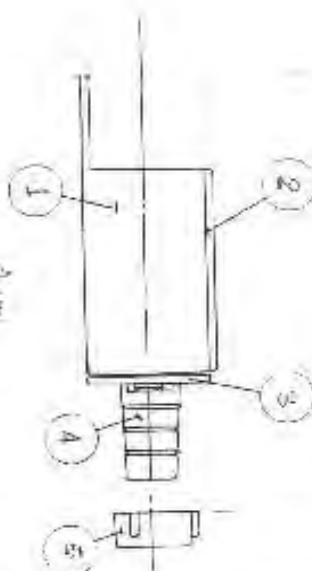
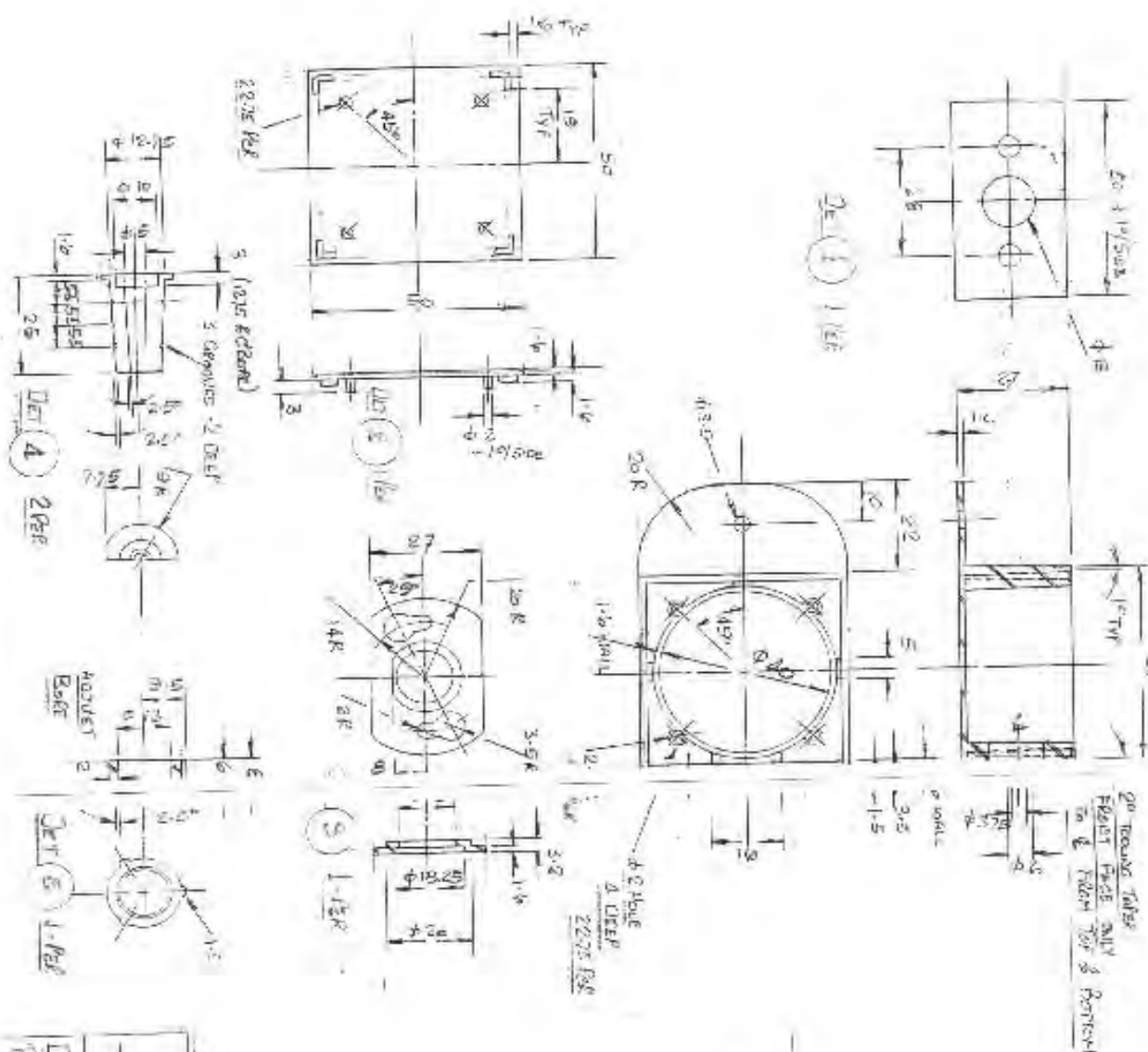
We can certify that POLYLAC PA-717C Natural and J01 Standard Black, PA-727 Natural, and PA-757 Natural ABS produced by CHI MEI CORPORATION can meet the requirement of FDA CFR21 § 181.32

Technical Service Department



Exploded Schematic/Diagram

Technical drawing



Answer
Mass = $\frac{2}{3} \times 1000 \times 10^{-3}$ kg
Mass = 666.67 g

Picture



Test Information



TEST REPORT

Send To: 4K550

UNIVERSAL MASTER PRODUCTS LTD
23 STATION APPROACH
HAYES, KENT BR2 7EX
UNITED KINGDOM
Attn: MR. GUY LAMSTAES

Customer: 4K550

UNIVERSAL MASTER PRODUCTS LTD
23 STATION APPROACH
HAYES, KENT BR2 7EX
UNITED KINGDOM
Attn: MR. GUY LAMSTAES

Plant: 4K551

LINK PLASTICS
UNIT 12 WESTWOOD FARM
HIGHCROSS ROAD, SOUTHFLEET
GRAVESEND, KENT DA13 9PH
UNITED KINGDOM
Attn: MR. STEVE WEBB

Sample Description: Retest of 'double cavity' version of tCube Mimicking Sensor

Test Type: QR - Qualification Testing - Retest

Thank you for having your product tested by NSF.

The enclosed report details the result of the testing performed on your product. Your program representative will be contacting you in the near future if there are any remaining issues concerning the status of this product.

Please do not hesitate to contact us if you have any immediate questions pertaining to your product.

Reviewer:

Sal Aridi - Manager, Engineering Laboratory

Status: **Pass**

CC: Program: 0185 - Residential Appliances
Program Rep: SOFIE PONSEELE
Region: 02 - Europe
PA Project: 9008755

General Information

Standard: NSF P235 2003 - TEMPERATURE MIMICKING SENSORS

Performance Standard: NSF P235 2003

Description: t-Cube Temperature Mimicking Device
Sampled Date: 03/06/2008
Received Date: 03/11/2008

Testing Parameter	Result	Units
Engineering Lab		
Normal Operations Test		
Refrigerator Warm-Up Test		
Max allowable temp variation	(-2 /+5) degrees F	
Actual max temp variation	+ 6 degrees F	
Result	PASS	
Retest of J-00046335 and J-00050649 due to a change of the location of the thermocouple placement inside the tCube mimick device. For this test, per the clients request, the thermocouple was inserted 15mm into the tCube. Test Materials ***** 1) I/O Tech temperature recorder operating with PDAQ software 2) 6 T type thermocouples verified accuracy $\pm 1^{\circ}\text{F}$ using Hart Scientific calibrator PL00559. 3) Nor-Lake low temperature sample chamber PL00419 4) Refrigerated food products a) Whole chicken 3.25 lbs b) Ground beef 2.5 lbs c) Whole milk 1 gallon d) Sour cream 16 ounces e) Apple juice 32 ounces (8 ounces removed from container to meet protocol requirements) Refrigerator Warm-up Test ***** Purpose ----- This test is to determine if the Temperature Mimicking Sensor (TMS), upon refrigerator equipment failure and warming, indicates higher temperatures than the control food products to provide advance warning and allow users to take remedial actions. Procedure ----- 1) Food products and TMS' were loaded into refrigerator and allowed to stabilize at 34°F. 2) The refrigerator thermostat was adjusted to 43°F 3) The air temperature, TMS temperature and the temperature of each control food product were recorded. Test Acceptance Criteria ----- The temperature indicated by the TMS shall be no more than 2°F lower and		

Testing Parameter	Result	Units
Engineering Lab (Cont'd)		
no more that 5°F higher than the control food products during the Refrigerator Warm-up Test. Any temperature discrepancy greater than this shall be reported as a failure		
Test Results		

PASS - A 5°F temperature discrepancy was recorded between the beef control food product and the TMS device.		

Testing Laboratories:

	Id	Address
All work performed at:	NSF_AA	NSF INTERNATIONAL 789 N. DIXBORO ROAD ANN ARBOR MI 48105

References to Testing Procedures:

NSF Reference	Parameter / Test Description
P2136	Normal Operations Test
P2137	Refrigerator Warm-Up Test

Test descriptions preceded by an asterisk “*” indicate that testing has been performed per NSF International requirements but is not within its scope of accreditation.

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October 5, 2007

ENGINEERING LABORATORY TEST REPORT

Location of testing: NSF International
789 Dixboro Road
Ann Arbor, MI 48105

Client: Universal Master Products LTD
23 Station Approach
Hayes, Kent BR2 7EX
United Kingdom
Attn: Mr. Guy Lamstaes

Description of Test Sample: eCube Temperature Mimicking Device

Date of Receipt of Test Sample: September 4, 2007

Date of Test: September 28 – October 1

Test Protocol: NSF Protocol P235

Status: **PASS** Black-colored eCube Temperature Mimicking Device
FAIL White-colored eCube Temperature Mimicking Device

The black eCube Temperature Mimicking Device meets the requirements of NSF Protocol P235. The white eCube Temperature Mimicking Device does not meet the requirements of NSF Protocol P235

Testing conducted by _____
Kevin Dostert
Senior Specialist – Engineering Laboratory

Technical Responsibility _____
Sal Aridi
Manager – Engineering Laboratory

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Test Materials

- 1) I/O Tech temperature recorder operating with PDAQ software
- 2) 6 Type-T thermocouples verified accuracy ± 1 degrees F using Hart Scientific calibrator PL00559.
- 3) Nor-Lake low temperature sample chamber PL00419
- 4) Refrigerated food products
 - a) Whole chicken 3.31.lbs
 - b) Ground beef 2.25 lbs
 - c) Whole milk 1 gallon
 - d) Sour cream 16 ounces
 - e) Apple juice 32 ounces (8 ounces removed from container to meet protocol requirements)

Normal Operation Test

Purpose

This test is to determine if the Temperature Mimicking Sensor (TMS) mimics the food temperature during normal refrigerator operation.

Procedure

- 1) Food products and TMS's were loaded into refrigerator and allowed to stabilize at 34°F.
- 2) The air temperature, TMS temperature and the temperature of each control food product were recorded very minute for four hours

Test Acceptance Criteria

The temperature indicated by the TMS shall be within $\pm 2^\circ\text{F}$ of the temperature indicated at 15 mm below the surface of the control food products during the normal operation test. Any temperature discrepancy greater than this shall be reported as a test failure.

Test Results

PASS

No temperature discrepancy greater than 2 degrees F between the control food products and the TMS devices.

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Refrigerator Warm-up Test

Purpose

This test is to determine if the Temperature Mimicking Sensor (TMS), upon refrigerator equipment failure and warming, indicates higher temperatures than the control food products to provide advance warning and allow users to take remedial actions.

Procedure

- 1) Food products and TMS's were loaded into refrigerator and allowed to stabilize at 34°F.
- 2) The refrigerator thermostat was adjusted to 43°F
- 3) The air temperature, TMS temperature and the temperature of each control food product were recorded.

Test Acceptance Criteria

The temperature indicated by the TMS shall be no more than 2°F lower and no more than 5°F higher than the control food products, during the Refrigerator Warm-up Test. Any temperature discrepancy greater than this shall be reported as a failure

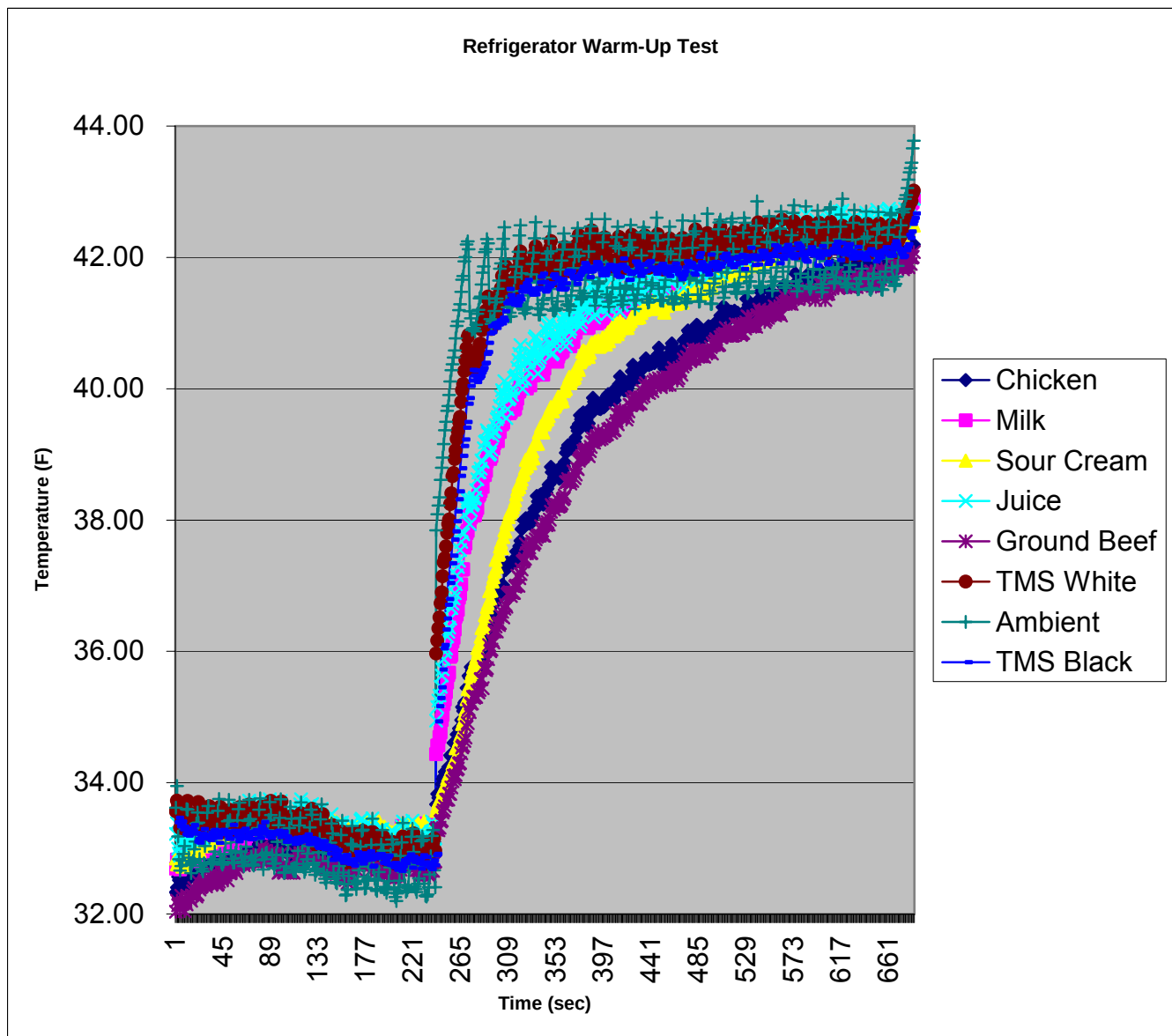
Test Results

Black-colored eCube Temperature Mimicking Device
White-colored eCube Temperature Mimicking Device

PASS
FAIL

Twenty-five minutes into the Refrigerator Warm-up Test, a 6°F temperature discrepancy was recorded between the ground beef control food product and the white TMS device. The maximum temperature difference recorded on the black TMS was 5°F.

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Page 5 of 5
NSF Job PSF J-00046335



ENGINEERING LABORATORY TEST REPORT

Location of testing: NSF International
789 Dixboro Road
Ann Arbor, MI, 48105-0140
USA

Client: Mr. Steve Webb
Universal Master Products
23 Station approach
Hayes, Kent BR2 7EX
United Kingdom

NSF Job#: J-00059451

Description of Test Sample: Temperature Mimicking Device – 3 cavity cube.

Date sample received: May 26th

Date of Test: June 26, 2008

Test Protocol: NSF Protocol P235

Results: The maximum difference between the sensor and any of the food products was 2 degrees for the normal operation test and 5 degrees during the refrigeration warm up test.

Status: **Pass**

Testing conducted by: Kevin Dostert
Specialist – Engineering Laboratory

Technical Responsibility _____
Sal Aridi Manager – Engineering Laboratory

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Serial # FI20080627000002 Project #: 905906 PSF J-00059451

789 Dixboro Road, Ann Arbor, MI 48105 USA
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E-Mail: info@nsf.org Web: <http://www.nsf.org>



Test Materials

Refrigerated control food products See figure 4

- (1) 2-3 lbs. whole chicken (plastic wrapped, refrigerated)
- (1) 2-3 lbs. ground beef (plastic wrapped, refrigerated)
- (1) 16 ounces sour cream (plastic tub, refrigerated)
- (1) 1 gallon 2% milk (plastic carton, refrigerated)
- (1) 12 to 24 ounces fruit juice or fruit drink (cardboard carton, refrigerated)

Test Set-up

1. The monitoring system was set-up such that the refrigerator air, TMS, and control food products could be monitored without opening the refrigerator door during testing.
2. The test refrigerator was fitted with a thermocouple attached to a temperature recorder. The refrigerator was then conditioned to 34 °F (± 2 °F).
3. Thermocouple probes were inserted approximately 15 mm below the surface of the TMS matrix and each of the control food products and attached to the temperature recorder.
4. The TMS and the control food products were loaded into the refrigerator immediately following the thermocouple / temperature recorder set-up. The TMS and the control food products were placed on the same shelf and with the same proximity to the refrigerator walls.
5. The TMS and the control food products were stored in the test refrigerator until they reached the refrigerator temperature of 34 °F (± 2 °F)

Normal Operations Test

Procedure

1. The initial temperature of the TMS and each of the control food products shall 34 °F (± 2 °F) and shall be recorded.
2. The air temperature, TMS temperature, and the temperature of each control food product shall be recorded every 1 minute for four hours.

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See Annex 1 page 7 for the full set of data obtained during this test and figure 1 for the graph.

Refrigerator Warm-up Test

Procedure

1. The initial internal temperature of the test TMS and each of the control food products shall be 34°F ($\pm 2^\circ\text{F}$) and shall be recorded.
2. The refrigerator thermostat shall be adjusted to 43°F.
3. The air temperature and the temperature of the TMS and each control food products shall be recorded every 1 minute until all control food temperatures have reached 43°F ($\pm 2^\circ\text{F}$).

See Annex 2 page 13 for the full set of data obtained during this test and figure 2 for the graph.

Test Acceptance Criteria

- The temperature indicated by the TMS shall be within $\pm 2^\circ\text{F}$ of the temperature indicated at 15 mm below the surface of the control food products during the Normal Operations Test. Any temperature discrepancy greater than this shall be reported as a test failure.
- The temperature indicated by the TMS shall be no more than 2°F lower and no more than 5°F higher than the control food products, during the Refrigerator Warm-up Test. Any temperature discrepancy greater than this shall be reported as a test failure.

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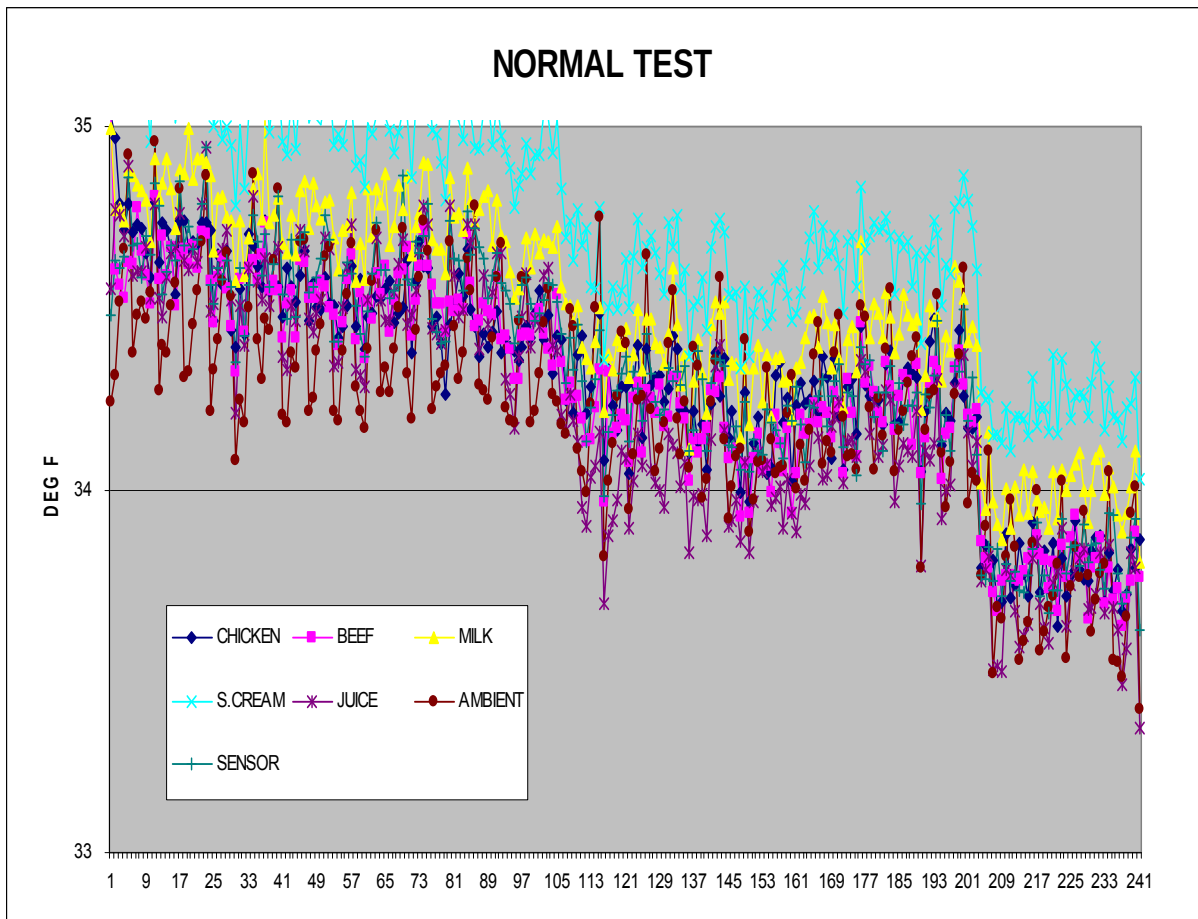
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DATA SUMMARY

Figure 1



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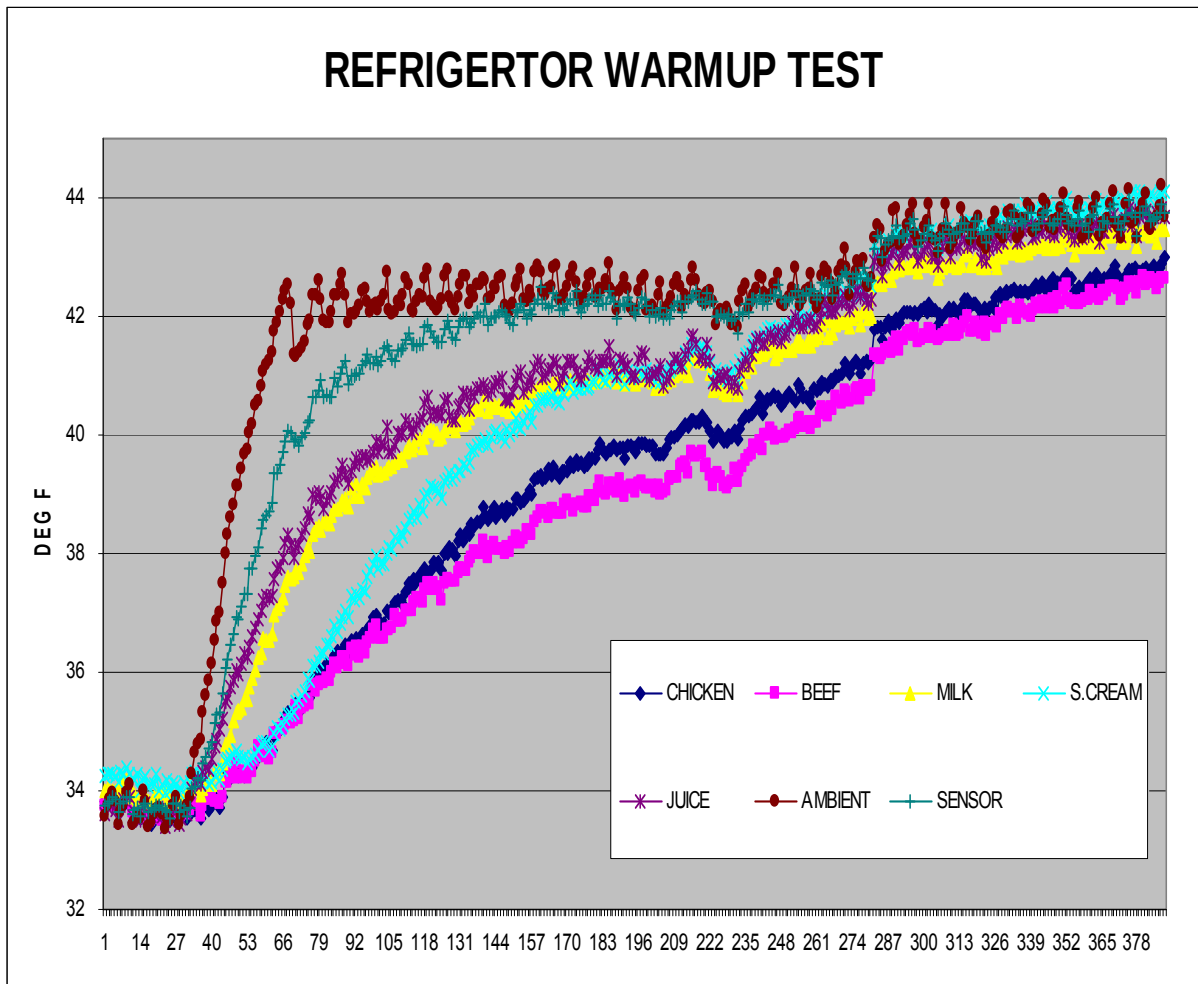
Project #: 905906

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Figure 2



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Figure 3- 3 Cavity Cube



Figure 4- Test set-up

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Annex 1 Normal Temperature

Time	chicken	grnd beef	milk	sour cream	juice	ambient	sensor
	°F	°F	°F	°F	°F	°F	°F
9:41:19	35.03	35.02	35.00	35.20	34.55	34.24	34.48
9:42:19	34.97	34.60	34.77	35.19	34.77	34.32	34.63
9:43:19	34.79	34.57	34.78	35.21	34.76	34.52	34.61
9:44:19	34.71	34.53	34.74	35.05	34.70	34.66	34.64
9:45:19	34.79	34.62	34.88	35.10	34.89	34.92	34.86
9:46:19	34.71	34.62	34.86	35.04	34.59	34.38	34.67
9:47:19	34.73	34.78	34.84	35.14	34.60	34.48	34.68
9:48:19	34.72	34.66	34.82	35.12	34.60	34.52	34.58
9:49:19	34.65	34.59	34.80	35.11	34.67	34.47	34.70
9:50:19	34.58	34.51	34.68	34.96	34.53	34.55	34.65
9:51:19	34.79	34.81	34.91	35.30	34.79	34.96	34.85
9:52:19	34.63	34.58	34.80	35.06	34.53	34.27	34.78
9:53:19	34.74	34.70	34.84	35.04	34.48	34.40	34.54
9:54:19	34.71	34.59	34.91	35.11	34.58	34.38	34.60
9:55:19	34.66	34.67	34.83	35.15	34.65	34.51	34.67
9:56:19	34.54	34.50	34.72	35.01	34.67	34.57	34.63
9:57:19	34.74	34.65	34.88	35.09	34.76	34.83	34.85
9:58:19	34.74	34.66	34.87	35.23	34.63	34.31	34.67
9:59:19	34.67	34.62	35.00	35.08	34.61	34.32	34.73
10:00:19	34.69	34.67	34.85	35.09	34.66	34.46	34.66
10:01:19	34.68	34.61	34.91	35.05	34.63	34.55	34.69
10:02:19	34.74	34.71	34.91	35.11	34.79	34.68	34.79
10:03:19	34.74	34.70	34.90	35.24	34.94	34.87	34.94
10:04:19	34.71	34.58	34.87	35.11	34.49	34.22	34.56
10:05:19	34.46	34.46	34.66	35.00	34.51	34.33	34.51
10:06:19	34.64	34.58	34.80	35.07	34.60	34.41	34.61
10:07:19	34.56	34.64	34.81	34.96	34.66	34.57	34.58
10:08:19	34.66	34.55	34.75	35.00	34.71	34.65	34.63
10:09:19	34.44	34.45	34.74	34.95	34.52	34.53	34.56
10:10:19	34.39	34.33	34.57	34.78	34.21	34.08	34.35
10:11:19	34.55	34.58	34.74	35.00	34.51	34.25	34.61
10:12:19	34.43	34.43	34.59	34.83	34.40	34.19	34.42
10:13:19	34.70	34.61	34.70	35.04	34.61	34.50	34.56
10:14:19	34.67	34.63	34.83	35.09	34.81	34.87	34.76
10:15:19	34.62	34.58	34.87	35.15	34.57	34.41	34.68
10:16:19	34.56	34.65	34.75	35.05	34.52	34.30	34.59
10:17:19	34.74	34.73	35.01	35.16	34.64	34.47	34.70
10:18:19	34.55	34.55	34.73	34.99	34.51	34.44	34.56

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Serial #FI20080627000002

Project #: 905906

PSF J-00059451

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E-Mail: info@nsf.org Web: <http://www.nsf.org>



10:19:19	34.57	34.57	34.76	35.11	34.64	34.63	34.62
10:20:19	34.56	34.55	34.80	35.13	34.67	34.83	34.81
10:21:19	34.48	34.42	34.68	34.96	34.37	34.20	34.54
10:22:19	34.61	34.51	34.65	34.92	34.33	34.18	34.47
10:23:19	34.56	34.55	34.76	35.08	34.51	34.38	34.69
10:24:19	34.51	34.42	34.65	34.94	34.47	34.34	34.48
10:25:19	34.59	34.63	34.82	35.13	34.71	34.68	34.69
10:26:19	34.65	34.63	34.85	35.12	34.66	34.69	34.71
10:27:19	34.47	34.53	34.72	35.01	34.47	34.22	34.54
10:28:19	34.57	34.55	34.85	35.04	34.44	34.25	34.56
10:29:19	34.50	34.53	34.78	35.02	34.49	34.38	34.58
10:30:19	34.49	34.57	34.75	35.00	34.52	34.45	34.64
10:31:19	34.58	34.56	34.79	35.08	34.69	34.64	34.76
10:32:19	34.51	34.50	34.80	35.13	34.66	34.67	34.69
10:33:19	34.50	34.48	34.69	34.95	34.34	34.21	34.41
10:34:19	34.42	34.40	34.61	34.98	34.35	34.19	34.41
10:35:19	34.45	34.46	34.72	34.95	34.50	34.38	34.59
10:36:19	34.50	34.58	34.73	35.03	34.61	34.54	34.62
10:37:19	34.62	34.65	34.82	35.06	34.73	34.68	34.60
10:38:19	34.45	34.41	34.58	34.89	34.33	34.28	34.50
10:39:19	34.58	34.54	34.68	34.91	34.31	34.21	34.43
10:40:19	34.39	34.36	34.58	34.84	34.29	34.17	34.37
10:41:19	34.48	34.52	34.83	35.01	34.52	34.39	34.49
10:42:19	34.49	34.47	34.70	34.98	34.58	34.58	34.60
10:43:19	34.53	34.59	34.83	35.03	34.70	34.72	34.74
10:44:19	34.53	34.54	34.79	35.09	34.52	34.27	34.61
10:45:19	34.55	34.62	34.87	35.03	34.46	34.34	34.60
10:46:19	34.58	34.43	34.67	34.99	34.47	34.27	34.53
10:47:19	34.46	34.52	34.72	34.92	34.54	34.39	34.55
10:48:19	34.49	34.60	34.84	34.98	34.62	34.50	34.56
10:49:19	34.50	34.61	34.77	35.05	34.69	34.72	34.87
10:50:19	34.63	34.67	34.86	35.02	34.46	34.32	34.58
10:51:19	34.38	34.42	34.65	34.86	34.48	34.20	34.56
10:52:19	34.57	34.52	34.73	35.08	34.55	34.44	34.68
10:53:19	34.68	34.62	34.76	35.04	34.66	34.58	34.65
10:54:19	34.61	34.71	34.90	35.17	34.78	34.74	34.70
10:55:19	34.61	34.61	34.90	35.15	34.73	34.66	34.78
10:56:19	34.45	34.56	34.69	34.99	34.44	34.22	34.47
10:57:19	34.47	34.51	34.66	34.98	34.43	34.28	34.43
10:58:19	34.41	34.51	34.66	34.90	34.40	34.32	34.40
10:59:19	34.26	34.43	34.59	34.80	34.44	34.34	34.41
11:00:19	34.45	34.51	34.86	35.03	34.78	34.68	34.74
11:01:19	34.51	34.49	34.75	35.04	34.59	34.45	34.64

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11:02:19	34.59	34.52	34.76	35.01	34.48	34.30	34.63
11:03:19	34.53	34.50	34.71	34.96	34.50	34.38	34.55
11:04:19	34.66	34.71	34.88	35.15	34.73	34.64	34.77
11:05:19	34.50	34.57	34.79	35.04	34.68	34.55	34.65
11:06:19	34.45	34.45	34.74	34.94	34.73	34.78	34.72
11:07:19	34.37	34.46	34.77	34.94	34.39	34.29	34.67
11:08:19	34.43	34.51	34.81	35.04	34.59	34.27	34.64
11:09:19	34.39	34.49	34.82	35.08	34.45	34.25	34.53
11:10:19	34.43	34.48	34.67	34.95	34.54	34.42	34.59
11:11:19	34.49	34.59	34.80	35.07	34.65	34.59	34.65
11:12:19	34.38	34.41	34.70	34.97	34.65	34.68	34.57
11:13:19	34.42	34.42	34.68	34.93	34.31	34.22	34.55
11:14:19	34.39	34.39	34.60	34.89	34.26	34.19	34.51
11:15:19	34.38	34.31	34.53	34.78	34.17	34.18	34.40
11:16:19	34.36	34.31	34.56	34.84	34.36	34.47	34.47
11:17:19	34.39	34.42	34.59	34.87	34.47	34.58	34.56
11:18:19	34.45	34.43	34.69	34.95	34.60	34.58	34.59
11:19:19	34.42	34.42	34.61	34.87	34.39	34.19	34.51
11:20:19	34.49	34.47	34.70	34.92	34.47	34.21	34.46
11:21:19	34.55	34.50	34.65	34.92	34.45	34.32	34.49
11:22:19	34.41	34.43	34.69	35.04	34.59	34.46	34.52
11:23:19	34.48	34.39	34.68	35.02	34.61	34.55	34.57
11:24:19	34.32	34.34	34.67	34.93	34.40	34.26	34.56
11:25:19	34.42	34.54	34.73	35.02	34.38	34.24	34.52
11:26:19	34.41	34.35	34.56	34.83	34.21	34.18	34.43
11:27:19	34.25	34.25	34.51	34.69	34.17	34.15	34.30
11:28:19	34.26	34.30	34.51	34.74	34.26	34.50	34.42
11:29:19	34.21	34.25	34.46	34.63	34.19	34.45	34.33
11:30:19	34.37	34.25	34.50	34.77	34.13	34.11	34.45
11:31:19	34.42	34.19	34.39	34.67	33.95	34.05	34.30
11:32:19	34.21	34.13	34.36	34.72	33.90	33.99	34.13
11:33:19	34.28	34.14	34.33	34.56	34.03	34.24	34.22
11:34:19	34.50	34.22	34.41	34.55	34.07	34.50	34.30
11:35:19	34.49	34.33	34.50	34.78	34.16	34.75	34.44
11:36:19	34.08	33.97	34.21	34.36	33.69	33.82	33.98
11:37:19	34.33	34.32	34.37	34.50	33.87	34.02	34.16
11:38:19	34.23	34.15	34.33	34.56	33.91	34.13	34.20
11:39:19	34.17	34.17	34.42	34.50	33.97	34.26	34.27
11:40:19	34.28	34.20	34.40	34.55	34.11	34.43	34.32
11:41:19	34.28	34.19	34.44	34.64	34.09	34.40	34.36
11:42:19	34.04	34.08	34.31	34.50	33.89	33.95	34.13
11:43:19	34.29	34.25	34.37	34.64	34.03	34.09	34.32
11:44:19	34.40	34.30	34.50	34.75	34.15	34.25	34.28

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11:45:19	34.15	34.10	34.33	34.61	34.06	34.25	34.19
11:46:19	34.39	34.27	34.47	34.67	34.25	34.64	34.43
11:47:19	34.29	34.25	34.47	34.70	34.06	34.22	34.32
11:48:19	34.31	34.21	34.40	34.65	34.02	34.05	34.24
11:49:19	34.31	34.29	34.39	34.59	34.00	34.11	34.20
11:50:19	34.24	34.18	34.35	34.54	33.95	34.18	34.22
11:51:19	34.28	34.20	34.43	34.74	34.16	34.40	34.33
11:52:19	34.42	34.31	34.61	34.67	34.12	34.55	34.30
11:53:19	34.39	34.31	34.45	34.75	34.10	34.19	34.32
11:54:19	34.22	34.24	34.29	34.55	34.01	34.10	34.29
11:55:19	34.22	34.20	34.37	34.60	34.07	34.24	34.34
11:56:19	34.10	34.02	34.11	34.36	33.82	34.06	34.11
11:57:19	34.21	34.14	34.30	34.50	33.98	34.39	34.16
11:58:19	34.13	34.10	34.41	34.51	33.97	34.34	34.38
11:59:19	34.18	34.14	34.32	34.58	33.99	33.98	34.30
12:00:19	34.06	34.17	34.21	34.44	33.87	34.03	34.10
12:01:19	34.24	34.27	34.45	34.67	34.14	34.24	34.29
12:02:19	34.38	34.27	34.51	34.72	34.34	34.35	34.36
12:03:19	34.26	34.31	34.49	34.75	34.40	34.59	34.35
12:04:19	34.36	34.17	34.52	34.71	34.16	34.14	34.34
12:05:19	34.15	34.09	34.31	34.54	33.90	33.92	34.12
12:06:19	34.22	34.09	34.35	34.53	33.91	34.01	34.12
12:07:19	34.10	34.11	34.35	34.54	33.97	34.09	34.17
12:08:19	33.99	33.93	34.14	34.33	33.86	34.11	34.06
12:09:19	34.27	34.07	34.34	34.56	34.08	34.42	34.24
12:10:19	33.97	33.94	34.18	34.37	33.83	33.88	34.05
12:11:19	34.13	34.09	34.34	34.49	33.97	33.97	34.14
12:12:19	34.20	34.15	34.40	34.54	34.10	34.08	34.11
12:13:19	34.06	34.05	34.24	34.53	34.05	34.08	34.10
12:14:19	34.04	34.06	34.37	34.46	34.07	34.33	34.22
12:15:19	34.06	33.99	34.20	34.48	33.96	34.14	34.18
12:16:19	34.31	34.21	34.36	34.58	33.98	34.04	34.16
12:17:19	34.35	34.13	34.37	34.58	34.01	34.06	34.13
12:18:19	34.18	34.05	34.30	34.62	33.90	34.06	34.08
12:19:19	34.25	34.17	34.31	34.54	34.03	34.21	34.23
12:20:19	34.02	33.94	34.19	34.46	33.94	34.31	34.19
12:21:19	34.23	34.05	34.33	34.49	33.88	34.00	34.28
12:22:19	34.29	34.20	34.35	34.54	33.99	34.12	34.18
12:23:19	34.23	34.15	34.42	34.62	33.96	34.02	34.07
12:24:19	34.25	34.18	34.47	34.69	34.06	34.16	34.23
12:25:19	34.30	34.23	34.48	34.77	34.23	34.37	34.23
12:26:19	34.22	34.18	34.39	34.61	34.14	34.46	34.26
12:27:19	34.37	34.23	34.53	34.72	34.03	34.07	34.30

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12:28:19	34.31	34.21	34.46	34.65	34.04	34.13	34.18
12:29:19	34.08	34.14	34.33	34.65	34.18	34.10	34.26
12:30:19	34.36	34.27	34.45	34.70	34.20	34.38	34.30
12:31:19	34.20	34.22	34.36	34.62	34.24	34.48	34.34
12:32:19	34.05	34.04	34.23	34.48	34.02	34.20	34.12
12:33:19	34.28	34.30	34.41	34.68	34.13	34.09	34.27
12:34:19	34.30	34.21	34.45	34.70	34.14	34.10	34.26
12:35:19	34.16	34.09	34.32	34.56	34.09	34.05	34.04
12:36:19	34.45	34.46	34.68	34.84	34.36	34.51	34.39
12:37:19	34.29	34.29	34.49	34.66	34.33	34.48	34.35
12:38:19	34.26	34.34	34.42	34.70	34.15	34.23	34.36
12:39:19	34.27	34.27	34.51	34.74	34.24	34.05	34.20
12:40:19	34.25	34.21	34.49	34.71	34.09	34.25	34.27
12:41:19	34.18	34.19	34.42	34.72	34.12	34.15	34.10
12:42:19	34.35	34.35	34.54	34.75	34.27	34.39	34.27
12:43:19	34.38	34.28	34.48	34.70	34.25	34.55	34.34
12:44:19	34.18	34.16	34.38	34.54	33.97	34.05	34.18
12:45:19	34.18	34.26	34.43	34.69	34.07	34.16	34.29
12:46:19	34.32	34.31	34.54	34.67	34.13	34.22	34.18
12:47:19	34.34	34.30	34.48	34.68	34.11	34.30	34.23
12:48:19	34.32	34.12	34.46	34.56	34.09	34.37	34.23
12:49:19	34.31	34.35	34.47	34.65	34.21	34.42	34.27
12:50:19	34.05	34.04	34.22	34.40	33.79	33.78	33.96
12:51:19	34.22	34.14	34.31	34.64	34.11	34.16	34.26
12:52:19	34.41	34.29	34.50	34.66	34.08	34.26	34.23
12:53:19	34.47	34.35	34.46	34.74	34.13	34.27	34.32
12:54:19	34.31	34.32	34.48	34.70	34.30	34.54	34.47
12:55:19	34.12	34.03	34.30	34.51	33.92	34.10	34.14
12:56:19	34.21	34.15	34.42	34.62	34.00	33.95	34.21
12:57:19	34.19	34.17	34.38	34.59	34.01	34.08	34.10
12:58:19	34.29	34.34	34.62	34.78	34.28	34.26	34.34
12:59:19	34.44	34.38	34.58	34.79	34.37	34.37	34.33
13:00:19	34.26	34.29	34.53	34.87	34.37	34.61	34.50
13:01:19	34.17	34.21	34.41	34.79	34.16	33.96	34.19
13:02:19	34.17	34.18	34.45	34.73	34.06	34.04	34.31
13:03:19	34.20	34.22	34.40	34.60	34.13	34.02	34.10
13:04:19	33.78	33.86	34.02	34.27	33.75	33.76	33.76
13:05:19	33.85	33.81	33.95	34.25	33.78	33.90	33.75
13:06:19	33.79	33.78	34.16	34.26	33.82	34.10	33.84
13:07:19	33.80	33.72	33.97	34.15	33.50	33.49	33.75
13:08:19	33.68	33.67	33.90	34.15	33.51	33.68	33.83
13:09:19	33.69	33.75	33.86	34.13	33.50	33.64	33.71
13:10:19	33.88	33.76	34.00	34.23	33.78	33.82	33.80

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13:11:19	33.70	33.76	33.89	34.11	33.76	33.97	33.75
13:12:19	33.74	33.75	34.01	34.20	33.67	33.84	33.77
13:13:19	33.85	33.75	33.93	34.20	33.57	33.53	33.72
13:14:19	33.77	33.77	34.06	34.19	33.60	33.58	33.72
13:15:19	33.71	33.81	33.94	34.15	33.63	33.63	33.76
13:16:19	33.91	33.83	34.05	34.31	33.81	33.85	33.84
13:17:19	33.83	33.87	33.97	34.17	33.86	34.00	33.91
13:18:19	33.72	33.82	33.94	34.23	33.69	33.56	33.71
13:19:19	33.83	33.80	33.95	34.23	33.62	33.61	33.76
13:20:19	33.73	33.73	33.90	34.16	33.58	33.67	33.66
13:21:19	33.85	33.80	34.05	34.37	33.74	33.71	33.72
13:22:19	33.62	33.67	33.92	34.15	33.77	33.80	33.72
13:23:19	33.81	33.85	34.06	34.36	33.90	34.02	33.92
13:24:19	33.71	33.76	34.00	34.29	33.62	33.53	33.77
13:25:19	33.76	33.87	34.04	34.20	33.74	33.73	33.84
13:26:19	33.92	33.93	34.07	34.26	33.77	33.84	33.85
13:27:19	33.78	33.81	34.10	34.26	33.81	33.76	33.79
13:28:19	33.75	33.83	34.00	34.26	33.84	33.94	33.91
13:29:19	33.75	33.64	33.91	34.20	33.67	33.77	33.80
13:30:19	33.83	33.78	34.00	34.29	33.67	33.61	33.85
13:31:19	33.87	33.81	34.09	34.39	33.71	33.69	33.85
13:32:19	33.87	33.87	34.10	34.33	33.83	33.77	33.78
13:33:19	33.69	33.68	33.99	34.16	33.66	33.80	33.73
13:34:19	33.83	33.79	34.06	34.28	33.85	34.05	33.94
13:35:19	33.72	33.69	34.01	34.20	33.68	33.53	33.93
13:36:19	33.78	33.73	33.93	34.20	33.61	33.53	33.77
13:37:19	33.67	33.62	33.88	34.13	33.46	33.48	33.69
13:38:19	33.71	33.70	33.94	34.22	33.56	33.65	33.72
13:39:19	33.84	33.75	34.01	34.23	33.82	33.94	33.87
13:40:19	33.79	33.88	34.10	34.31	33.79	34.01	33.92
13:41:19	33.86	33.76	33.80	34.03	33.34	33.39	33.61
Min	34	34	34	34	33	33	34
Max	35	35	35	35	35	35	35

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Annex 2 -Refrigeration warm up Data

Time	chicken	grnd beef	milk	sour cream	juice	ambient	Sensor
	°F	°F	°F	°F	°F	°F	°F
13:42:19	33.82	33.77	33.98	34.26	33.59	33.57	33.73
13:43:19	33.80	33.83	34.03	34.29	33.72	33.75	33.78
13:44:19	33.87	33.84	33.99	34.29	33.78	33.85	33.84
13:45:19	33.88	33.88	34.00	34.28	33.76	33.97	33.91
13:46:19	33.76	33.74	34.00	34.24	33.68	33.83	33.85
13:47:19	33.67	33.71	34.08	34.15	33.50	33.44	33.66
13:48:19	33.77	33.75	33.98	34.31	33.75	33.65	33.78
13:49:19	33.76	33.82	34.22	34.28	33.84	33.75	33.81
13:50:19	33.95	33.86	34.16	34.40	33.93	33.96	33.90
13:51:19	33.79	33.86	34.11	34.30	33.90	34.09	33.89
13:52:19	33.59	33.65	33.89	34.21	33.57	33.44	33.61
13:53:19	33.64	33.62	33.91	34.17	33.65	33.47	33.68
13:54:19	33.61	33.67	33.85	34.27	33.60	33.62	33.70
13:55:19	33.54	33.55	33.77	34.01	33.49	33.54	33.56
13:56:19	33.67	33.73	33.95	34.20	33.72	33.98	33.75
13:57:19	33.76	33.68	33.91	34.25	33.78	33.82	33.79
13:58:19	33.60	33.59	33.81	34.09	33.49	33.40	33.63
13:59:19	33.42	33.51	33.78	34.12	33.57	33.45	33.71
14:00:19	33.77	33.65	33.88	34.11	33.62	33.62	33.67
14:01:19	33.69	33.72	33.95	34.28	33.68	33.68	33.76
14:02:19	33.52	33.52	33.71	34.00	33.67	33.70	33.75
14:03:19	33.63	33.50	33.95	34.12	33.58	33.61	33.71
14:04:19	33.49	33.52	33.74	33.96	33.39	33.35	33.67
14:05:19	33.66	33.72	33.98	34.17	33.59	33.53	33.63
14:06:19	33.49	33.59	33.81	34.01	33.50	33.50	33.53
14:07:19	33.66	33.65	33.90	34.15	33.73	33.75	33.79
14:08:19	33.64	33.63	33.85	34.11	33.72	33.89	33.79
14:09:19	33.63	33.61	33.78	33.97	33.41	33.41	33.63
14:10:19	33.58	33.56	33.79	34.04	33.54	33.57	33.74
14:11:19	33.56	33.65	33.89	34.16	33.67	33.66	33.70

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Serial #FI20080627000002

Project #: 905906

PSF J-00059451

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14:12:19	33.54	33.59	33.83	34.07	33.61	33.74	33.59
14:13:19	33.61	33.70	34.11	34.14	33.79	33.91	33.72
14:14:19	33.80	33.84	34.03	34.30	34.05	34.30	34.02
14:15:19	33.70	33.75	34.08	34.32	34.13	34.64	34.07
14:16:19	33.67	33.75	34.03	34.25	34.20	34.77	34.21
14:17:19	33.55	33.58	33.92	34.16	34.09	34.85	34.20
14:18:19	33.75	33.75	34.05	34.26	34.34	35.34	34.47
14:19:19	33.77	33.86	34.12	34.21	34.41	35.60	34.58
14:20:19	33.69	33.87	34.26	34.12	34.35	35.85	34.71
14:21:19	33.76	33.84	34.11	34.15	34.52	36.14	34.84
14:22:19	33.81	33.81	34.32	34.25	34.75	36.54	35.14
14:23:19	33.87	33.82	34.32	34.35	34.86	36.84	35.30
14:24:19	33.72	33.77	34.27	34.19	35.02	37.02	35.32
14:25:19	33.90	33.90	34.47	34.37	35.22	37.50	35.65
14:26:19	34.25	34.16	34.79	34.51	35.51	37.98	36.06
14:27:19	34.20	34.15	34.80	34.52	35.57	38.31	36.22
14:28:19	34.22	34.20	34.92	34.57	35.75	38.59	36.45
14:29:19	34.31	34.28	35.17	34.62	35.87	38.82	36.64
14:30:19	34.39	34.48	35.32	34.66	36.03	39.13	36.92
14:31:19	34.27	34.23	35.36	34.56	35.98	39.16	36.90
14:32:19	34.29	34.25	35.39	34.54	36.13	39.44	37.11
14:33:19	34.25	34.32	35.55	34.58	36.32	39.66	37.31
14:34:19	34.28	34.20	35.53	34.46	36.27	39.73	37.32
14:35:19	34.38	34.34	35.76	34.52	36.43	40.03	37.73
14:36:19	34.38	34.34	35.89	34.56	36.62	40.17	37.74
14:37:19	34.49	34.49	36.04	34.62	36.76	40.49	37.98
14:38:19	34.71	34.76	36.26	34.70	36.90	40.58	38.12
14:39:19	34.60	34.56	36.32	34.77	37.02	40.83	38.42
14:40:19	34.73	34.70	36.56	34.83	37.22	41.06	38.56
14:41:19	34.82	34.64	36.55	34.82	37.27	41.17	38.66
14:42:19	34.67	34.55	36.52	34.69	37.24	41.25	38.71
14:43:19	34.66	34.63	36.63	34.75	37.28	41.40	38.86
14:44:19	34.93	34.95	36.97	34.95	37.58	41.76	39.36
14:45:19	35.05	34.96	37.06	35.07	37.75	41.90	39.36
14:46:19	35.03	35.03	37.15	35.04	37.79	42.06	39.51
14:47:19	35.06	35.02	37.25	35.11	37.94	42.27	39.70
14:48:19	35.20	35.12	37.45	35.21	38.19	42.42	39.89
14:49:19	35.34	35.18	37.61	35.30	38.32	42.55	40.07
14:50:19	35.24	35.13	37.59	35.28	38.16	42.22	40.04
14:51:19	35.28	35.16	37.61	35.33	37.92	41.37	39.89
14:52:19	35.46	35.42	37.70	35.50	38.09	41.31	39.92
14:53:19	35.31	35.22	37.69	35.52	38.15	41.39	39.82
14:54:19	35.45	35.39	37.81	35.61	38.31	41.45	39.96

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14:55:19	35.47	35.41	37.95	35.66	38.42	41.59	40.02
14:56:19	35.57	35.54	38.12	35.89	38.69	41.86	40.21
14:57:19	35.56	35.46	38.02	35.86	38.62	41.93	40.24
14:58:19	35.84	35.77	38.31	36.11	39.00	42.34	40.64
14:59:19	35.83	35.70	38.44	36.12	38.93	42.37	40.64
15:00:19	35.96	35.80	38.47	36.19	39.05	42.59	40.74
15:01:19	36.03	35.81	38.41	36.34	38.91	42.28	40.92
15:02:19	35.97	35.84	38.54	36.32	38.74	41.93	40.66
15:03:19	36.13	35.89	38.54	36.47	38.89	41.91	40.68
15:04:19	36.01	35.87	38.49	36.48	38.98	41.90	40.63
15:05:19	36.19	36.00	38.63	36.60	39.04	42.07	40.65
15:06:19	36.29	36.14	38.76	36.79	39.22	42.34	40.95
15:07:19	36.34	36.07	38.74	36.68	39.24	42.37	40.81
15:08:19	36.30	36.14	38.81	36.82	39.36	42.54	41.02
15:09:19	36.37	36.23	38.91	36.93	39.50	42.71	41.16
15:10:19	36.46	36.26	38.93	37.03	39.34	42.35	41.25
15:11:19	36.28	36.11	38.80	36.91	39.18	41.91	40.87
15:12:19	36.52	36.39	39.11	37.30	39.39	42.03	40.99
15:13:19	36.46	36.27	38.95	37.23	39.49	42.02	41.00
15:14:19	36.57	36.44	39.16	37.34	39.60	42.09	41.02
15:15:19	36.48	36.26	38.97	37.24	39.55	42.19	41.03
15:16:19	36.66	36.42	39.19	37.39	39.66	42.44	41.17
15:17:19	36.48	36.34	39.11	37.37	39.64	42.46	41.25
15:18:19	36.71	36.51	39.28	37.60	39.58	42.24	41.37
15:19:19	36.80	36.57	39.35	37.70	39.60	42.06	41.23
15:20:19	36.94	36.71	39.42	37.81	39.73	42.17	41.22
15:21:19	36.98	36.78	39.48	37.95	39.89	42.23	41.32
15:22:19	36.80	36.58	39.30	37.74	39.71	42.12	41.18
15:23:19	36.83	36.58	39.35	37.83	39.87	42.27	41.27
15:24:19	36.83	36.57	39.36	37.81	39.82	42.36	41.45
15:25:19	37.05	36.72	39.44	38.00	40.15	42.74	41.49
15:26:19	36.99	36.71	39.46	38.09	39.73	42.12	41.43
15:27:19	37.08	36.76	39.45	38.07	39.73	42.03	41.29
15:28:19	37.19	36.96	39.53	38.28	39.82	42.07	41.27
15:29:19	37.23	36.87	39.57	38.21	40.02	42.24	41.41
15:30:19	37.22	36.85	39.60	38.34	40.00	42.19	41.43
15:31:19	37.14	36.89	39.56	38.29	40.03	42.37	41.48
15:32:19	37.35	37.04	39.72	38.42	40.26	42.64	41.61
15:33:19	37.51	37.05	39.81	38.57	40.17	42.52	41.73
15:34:19	37.42	37.05	39.74	38.60	40.05	42.10	41.53
15:35:19	37.59	37.18	39.81	38.71	40.10	42.07	41.53
15:36:19	37.55	37.26	39.92	38.60	40.17	42.25	41.50
15:37:19	37.64	37.23	39.91	38.83	40.25	42.37	41.53

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15:38:19	37.55	37.17	39.79	38.71	40.30	42.32	41.53
15:39:19	37.76	37.40	39.98	38.95	40.55	42.63	41.82
15:40:19	37.69	37.48	40.05	39.01	40.66	42.79	41.87
15:41:19	37.73	37.38	40.09	39.13	40.32	42.24	41.74
15:42:19	37.85	37.50	40.09	39.12	40.41	42.17	41.63
15:43:19	37.82	37.43	40.03	39.10	40.35	42.12	41.57
15:44:19	37.84	37.39	39.94	39.02	40.35	42.16	41.57
15:45:19	37.73	37.21	39.95	38.94	40.32	42.28	41.58
15:46:19	38.00	37.51	40.07	39.22	40.56	42.66	41.79
15:47:19	38.01	37.57	40.15	39.25	40.61	42.79	41.91
15:48:19	38.11	37.52	40.14	39.37	40.31	42.30	41.80
15:49:19	38.08	37.55	40.13	39.26	40.26	42.20	41.64
15:50:19	37.97	37.53	40.06	39.31	40.27	42.11	41.59
15:51:19	38.22	37.66	40.18	39.38	40.48	42.31	41.81
15:52:19	38.31	37.74	40.26	39.40	40.50	42.53	41.93
15:53:19	38.22	37.72	40.19	39.51	40.71	42.69	41.96
15:54:19	38.35	37.71	40.20	39.46	40.66	42.69	41.98
15:55:19	38.31	37.86	40.29	39.52	40.42	42.20	41.81
15:56:19	38.51	37.94	40.39	39.75	40.70	42.43	41.91
15:57:19	38.48	38.04	40.45	39.75	40.63	42.33	41.96
15:58:19	38.54	38.00	40.45	39.83	40.78	42.54	42.05
15:59:19	38.54	37.99	40.44	39.84	40.78	42.55	41.99
16:00:19	38.80	38.21	40.58	39.86	40.85	42.66	42.01
16:01:19	38.65	38.08	40.62	39.92	40.80	42.60	42.21
16:02:19	38.56	37.94	40.40	39.83	40.68	42.29	41.87
16:03:19	38.68	38.11	40.46	39.95	40.74	42.32	41.97
16:04:19	38.78	38.17	40.48	40.02	40.84	42.50	42.00
16:05:19	38.62	38.06	40.47	40.05	40.90	42.47	42.01
16:06:19	38.68	38.07	40.49	40.00	40.90	42.63	42.09
16:07:19	38.75	38.07	40.46	39.97	40.97	42.68	42.12
16:08:19	38.63	38.01	40.42	39.90	40.61	42.17	42.02
16:09:19	38.80	38.11	40.46	40.11	40.60	42.15	42.00
16:10:19	38.73	38.03	40.39	39.99	40.56	42.09	41.88
16:11:19	38.76	38.16	40.44	40.07	40.72	42.21	41.86
16:12:19	38.91	38.28	40.55	40.27	40.90	42.52	42.10
16:13:19	38.93	38.25	40.56	40.14	41.00	42.62	42.09
16:14:19	38.86	38.17	40.49	40.11	41.07	42.78	42.20
16:15:19	38.88	38.25	40.57	40.20	40.72	42.27	42.11
16:16:19	38.98	38.39	40.66	40.34	40.82	42.26	41.96
16:17:19	39.08	38.39	40.63	40.38	40.98	42.42	42.11
16:18:19	39.00	38.33	40.56	40.23	40.85	42.31	42.05
16:19:19	39.26	38.54	40.76	40.50	41.15	42.76	42.21
16:20:19	39.29	38.62	40.77	40.50	41.26	42.87	42.30

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16:21:19	39.30	38.73	40.86	40.59	41.19	42.75	42.48
16:22:19	39.25	38.70	40.85	40.62	40.97	42.42	42.21
16:23:19	39.29	38.69	40.80	40.60	41.02	42.37	42.21
16:24:19	39.43	38.62	40.81	40.62	41.11	42.47	42.16
16:25:19	39.31	38.75	40.78	40.63	41.11	42.50	42.18
16:26:19	39.48	38.73	40.90	40.70	41.24	42.84	42.39
16:27:19	39.37	38.67	40.89	40.59	41.23	42.87	42.33
16:28:19	39.28	38.68	40.83	40.52	40.87	42.27	42.10
16:29:19	39.38	38.69	40.81	40.71	40.98	42.29	42.13
16:30:19	39.38	38.81	40.80	40.69	41.06	42.37	42.10
16:31:19	39.40	38.88	40.87	40.84	41.23	42.52	42.20
16:32:19	39.54	38.81	40.91	40.89	41.23	42.69	42.29
16:33:19	39.45	38.73	40.81	40.71	41.26	42.82	42.30
16:34:19	39.56	38.82	40.95	40.79	41.07	42.58	42.44
16:35:19	39.52	38.83	40.91	40.78	41.01	42.35	42.14
16:36:19	39.54	38.87	40.84	40.78	40.94	42.20	42.08
16:37:19	39.47	38.78	40.86	40.83	41.05	42.33	42.18
16:38:19	39.50	38.78	40.93	40.78	41.16	42.51	42.20
16:39:19	39.60	38.98	40.88	40.82	41.33	42.68	42.30
16:40:19	39.59	38.98	40.89	40.91	41.23	42.70	42.36
16:41:19	39.60	38.89	40.90	40.90	41.14	42.32	42.30
16:42:19	39.77	39.08	41.00	41.04	41.09	42.37	42.19
16:43:19	39.85	39.23	41.10	41.10	41.26	42.46	42.37
16:44:19	39.76	39.05	40.97	40.92	41.23	42.46	42.22
16:45:19	39.67	38.99	40.91	40.88	41.25	42.59	42.22
16:46:19	39.75	39.20	41.03	40.98	41.49	42.89	42.42
16:47:19	39.74	39.07	41.06	41.03	41.25	42.47	42.32
16:48:19	39.81	39.17	41.05	41.13	41.15	42.40	42.24
16:49:19	39.76	39.04	40.90	40.92	40.99	42.10	41.98
16:50:19	39.79	39.23	41.10	41.18	41.30	42.43	42.19
16:51:19	39.79	39.10	41.03	41.06	41.26	42.51	42.22
16:52:19	39.61	38.97	40.87	40.86	41.15	42.63	42.17
16:53:19	39.81	39.10	41.02	41.06	41.17	42.48	42.33
16:54:19	39.81	39.14	40.95	40.97	41.01	42.16	42.20
16:55:19	39.78	39.11	40.93	41.00	40.97	42.07	42.07
16:56:19	39.73	39.05	40.85	40.99	41.01	42.11	42.02
16:57:19	39.87	39.16	40.94	41.06	41.28	42.42	42.15
16:58:19	39.86	39.20	41.00	41.04	41.41	42.60	42.31
16:59:19	39.87	39.13	41.02	41.02	41.37	42.67	42.30
17:00:19	39.81	39.11	40.98	41.11	40.99	42.11	42.19
17:01:19	39.82	39.09	40.93	41.00	40.94	42.15	42.01
17:02:19	39.84	39.13	40.90	41.08	41.04	42.18	42.11
17:03:19	39.66	39.05	40.77	40.90	41.04	42.07	41.99

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17:04:19	39.69	39.15	40.81	40.95	41.07	42.34	42.03
17:05:19	39.69	39.02	40.80	40.88	41.18	42.55	42.14
17:06:19	39.69	39.02	40.83	40.93	40.81	42.02	41.98
17:07:19	39.78	39.07	40.91	41.08	40.94	42.16	42.02
17:08:19	39.94	39.23	40.96	41.07	40.96	42.20	41.96
17:09:19	39.95	39.29	40.93	41.09	41.14	42.33	42.09
17:10:19	39.97	39.28	40.99	41.13	41.30	42.55	42.20
17:11:19	40.01	39.27	41.02	41.17	41.30	42.66	42.26
17:12:19	40.07	39.47	41.06	41.19	41.17	42.50	42.24
17:13:19	40.12	39.50	41.19	41.23	41.13	42.13	42.09
17:14:19	40.19	39.54	41.23	41.41	41.35	42.37	42.24
17:15:19	40.14	39.36	41.01	41.29	41.42	42.30	42.26
17:16:19	40.24	39.72	41.28	41.53	41.65	42.62	42.32
17:17:19	40.26	39.66	41.32	41.44	41.68	42.83	42.37
17:18:19	40.23	39.65	41.29	41.47	41.54	42.62	42.43
17:19:19	40.20	39.70	41.23	41.45	41.29	42.36	42.29
17:20:19	40.32	39.73	41.31	41.50	41.34	42.26	42.22
17:21:19	40.20	39.47	41.20	41.33	41.24	42.22	42.22
17:22:19	40.23	39.49	41.20	41.40	41.52	42.41	42.38
17:23:19	40.07	39.31	41.03	41.23	41.23	42.42	42.25
17:24:19	39.89	39.13	40.76	40.92	40.89	42.27	42.24
17:25:19	39.97	39.27	40.93	41.11	40.86	41.85	42.01
17:26:19	40.05	39.36	40.80	41.04	41.01	42.02	41.99
17:27:19	40.01	39.29	40.84	41.06	40.97	42.10	42.03
17:28:19	39.91	39.14	40.71	40.98	40.98	42.02	42.00
17:29:19	39.88	39.11	40.68	40.92	41.05	42.14	41.97
17:30:19	39.98	39.17	40.76	40.95	40.91	42.07	42.04
17:31:19	39.97	39.23	40.80	41.06	40.81	41.87	41.92
17:32:19	40.06	39.41	40.86	41.16	40.90	41.89	41.97
17:33:19	39.92	39.20	40.69	40.89	40.78	41.83	41.72
17:34:19	40.12	39.40	41.03	41.25	41.08	42.25	42.07
17:35:19	40.25	39.46	40.90	41.17	41.19	42.43	42.05
17:36:19	40.34	39.57	41.08	41.36	41.30	42.52	42.20
17:37:19	40.33	39.63	41.16	41.39	41.16	42.15	42.06
17:38:19	40.34	39.70	41.15	41.49	41.37	42.26	42.29
17:39:19	40.40	39.81	41.32	41.58	41.49	42.37	42.27
17:40:19	40.45	39.79	41.34	41.66	41.61	42.48	42.24
17:41:19	40.65	39.90	41.37	41.63	41.64	42.69	42.37
17:42:19	40.36	39.74	41.37	41.53	41.54	42.66	42.22
17:43:19	40.51	39.99	41.40	41.70	41.54	42.39	42.28
17:44:19	40.62	39.99	41.42	41.78	41.63	42.31	42.23
17:45:19	40.60	40.11	41.52	41.83	41.72	42.35	42.37
17:46:19	40.68	40.05	41.46	41.77	41.62	42.55	42.35

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Serial #FI20080627000002 Project #: 905906 PSF J-00059451

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17:47:19	40.64	39.92	41.30	41.73	41.64	42.55	42.34
17:48:19	40.65	39.98	41.36	41.71	41.74	42.71	42.53
17:49:19	40.50	39.95	41.48	41.75	41.57	42.23	42.31
17:50:19	40.56	39.96	41.43	41.80	41.68	42.16	42.25
17:51:19	40.63	40.01	41.47	41.84	41.70	42.24	42.25
17:52:19	40.70	40.06	41.42	41.86	41.79	42.31	42.29
17:53:19	40.66	40.03	41.42	41.82	41.90	42.46	42.33
17:54:19	40.58	40.11	41.50	41.88	42.01	42.83	42.44
17:55:19	40.85	40.24	41.64	42.07	41.94	42.35	42.44
17:56:19	40.79	40.27	41.56	42.12	41.82	42.18	42.26
17:57:19	40.65	40.16	41.49	41.95	41.83	42.30	42.37
17:58:19	40.66	40.19	41.50	42.03	41.88	42.42	42.39
17:59:19	40.64	40.21	41.64	41.98	41.95	42.47	42.35
18:00:19	40.55	40.10	41.52	41.88	41.96	42.73	42.48
18:01:19	40.77	40.21	41.62	42.12	41.82	42.28	42.44
18:02:19	40.73	40.21	41.65	42.10	41.86	42.15	42.30
18:03:19	40.80	40.36	41.70	42.14	41.95	42.27	42.37
18:04:19	40.88	40.46	41.84	42.30	42.11	42.66	42.58
18:05:19	40.87	40.44	41.93	42.38	42.29	42.81	42.53
18:06:19	40.82	40.30	41.63	42.06	42.10	42.74	42.49
18:07:19	40.94	40.48	41.92	42.25	42.07	42.58	42.62
18:08:19	40.88	40.41	41.70	42.17	42.06	42.28	42.34
18:09:19	41.01	40.66	41.87	42.31	42.09	42.44	42.55
18:10:19	41.01	40.57	41.91	42.33	42.29	42.75	42.55
18:11:19	41.04	40.52	41.90	42.36	42.21	42.85	42.67
18:12:19	41.21	40.75	41.93	42.37	42.35	43.15	42.75
18:13:19	41.14	40.73	41.95	42.43	42.25	42.83	42.71
18:14:19	41.05	40.58	41.83	42.33	42.11	42.37	42.49
18:15:19	41.18	40.62	41.95	42.46	42.23	42.60	42.65
18:16:19	41.26	40.77	42.05	42.55	42.42	42.75	42.72
18:17:19	41.20	40.80	42.03	42.63	42.42	42.92	42.65
18:18:19	41.05	40.61	41.87	42.35	42.31	42.88	42.64
18:19:19	41.22	40.81	42.12	42.59	42.42	42.96	42.82
18:20:19	41.24	40.79	42.06	42.57	42.28	42.52	42.63
18:21:19	41.22	40.76	41.95	42.60	42.23	42.51	42.62
18:22:19	41.30	40.82	42.01	42.51	42.29	42.63	42.59
18:23:19	41.79	41.35	42.54	43.22	42.94	43.33	43.15
18:24:19	41.83	41.33	42.58	43.11	42.99	43.52	43.37
18:25:19	41.81	41.29	42.59	43.06	42.89	43.47	43.31
18:26:19	41.62	41.37	42.53	42.97	42.66	42.92	43.00
18:27:19	41.83	41.43	42.59	43.08	42.88	43.12	43.20
18:28:19	41.93	41.45	42.60	43.27	42.95	43.23	43.30
18:29:19	41.80	41.39	42.61	43.15	43.06	43.24	43.31

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18:30:19	41.86	41.52	42.73	43.17	43.09	43.77	43.37
18:31:19	41.97	41.63	42.85	43.38	43.18	43.81	43.52
18:32:19	41.91	41.44	42.78	43.25	42.90	43.20	43.33
18:33:19	42.04	41.64	42.88	43.35	43.12	43.27	43.36
18:34:19	42.07	41.62	42.83	43.39	43.09	43.37	43.35
18:35:19	42.07	41.70	42.81	43.42	43.12	43.55	43.41
18:36:19	42.07	41.75	42.86	43.38	43.24	43.72	43.56
18:37:19	42.04	41.68	42.94	43.37	43.34	43.88	43.66
18:38:19	42.07	41.78	42.83	43.41	43.10	43.39	43.47
18:39:19	42.05	41.56	42.76	43.31	42.92	43.23	43.19
18:40:19	42.11	41.61	42.86	43.34	43.02	43.30	43.30
18:41:19	42.15	41.67	42.89	43.46	43.09	43.50	43.38
18:42:19	42.09	41.66	42.96	43.43	43.21	43.60	43.39
18:43:19	42.21	41.79	42.85	43.37	43.25	43.88	43.53
18:44:19	42.11	41.74	42.94	43.46	42.99	43.32	43.36
18:45:19	42.11	41.66	42.84	43.31	42.99	43.27	43.28
18:46:19	41.84	41.62	42.63	43.16	42.86	43.08	43.12
18:47:19	42.03	41.63	42.77	43.33	43.05	43.33	43.34
18:48:19	41.99	41.69	42.82	43.36	43.17	43.45	43.40
18:49:19	42.06	41.71	42.85	43.43	43.37	43.88	43.55
18:50:19	42.14	41.77	42.91	43.52	43.20	43.42	43.47
18:51:19	42.07	41.70	42.89	43.40	42.99	43.13	43.26
18:52:19	42.16	41.87	42.85	43.48	43.25	43.25	43.38
18:53:19	42.06	41.67	42.81	43.39	43.15	43.40	43.44
18:54:19	42.05	41.71	42.86	43.40	43.18	43.44	43.42
18:55:19	42.15	41.82	42.89	43.43	43.39	43.84	43.56
18:56:19	42.27	41.89	43.05	43.58	43.29	43.56	43.57
18:57:19	42.27	41.99	43.10	43.57	43.18	43.50	43.48
18:58:19	42.19	41.74	42.85	43.61	43.25	43.30	43.34
18:59:19	42.22	41.75	42.85	43.54	43.23	43.40	43.45
19:00:19	42.22	41.89	42.95	43.57	43.27	43.58	43.59
19:01:19	42.14	41.81	42.88	43.49	43.31	43.68	43.59
19:02:19	42.01	41.72	42.81	43.38	42.98	43.26	43.40
19:03:19	42.14	41.90	43.02	43.52	43.08	43.33	43.42
19:04:19	42.08	41.67	42.84	43.34	42.94	43.14	43.25
19:05:19	42.15	41.85	42.99	43.53	43.14	43.37	43.39
19:06:19	42.19	41.84	42.89	43.54	43.20	43.59	43.41
19:07:19	42.31	41.90	42.95	43.51	43.41	43.76	43.52
19:08:19	42.08	41.82	42.82	43.44	43.17	43.45	43.55
19:09:19	42.38	42.03	43.10	43.70	43.30	43.40	43.50
19:10:19	42.30	41.97	43.01	43.63	43.26	43.34	43.44
19:11:19	42.43	42.12	43.06	43.72	43.34	43.45	43.43
19:12:19	42.40	42.16	43.16	43.77	43.51	43.74	43.58

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Serial #FI20080627000002

Project #: 905906

PSF J-00059451

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19:13:19	42.45	42.07	43.08	43.56	43.40	43.78	43.65
19:14:19	42.46	42.09	43.16	43.80	43.48	43.71	43.78
19:15:19	42.40	41.97	43.06	43.73	43.25	43.33	43.55
19:16:19	42.42	42.18	43.03	43.70	43.29	43.39	43.64
19:17:19	42.40	42.10	43.08	43.78	43.48	43.64	43.59
19:18:19	42.42	42.08	43.13	43.89	43.49	43.65	43.60
19:19:19	42.38	42.04	43.08	43.75	43.58	43.89	43.77
19:20:19	42.38	42.02	43.15	43.73	43.54	43.83	43.74
19:21:19	42.47	42.12	43.18	43.74	43.31	43.43	43.54
19:22:19	42.53	42.22	43.16	43.83	43.37	43.45	43.46
19:23:19	42.48	42.13	43.17	43.80	43.42	43.49	43.57
19:24:19	42.57	42.25	43.22	43.81	43.43	43.73	43.69
19:25:19	42.55	42.22	43.21	43.85	43.63	43.96	43.74
19:26:19	42.44	42.13	43.15	43.92	43.52	43.90	43.79
19:27:19	42.57	42.25	43.24	43.81	43.40	43.49	43.57
19:28:19	42.65	42.28	43.25	43.82	43.42	43.60	43.54
19:29:19	42.45	42.13	43.13	43.76	43.35	43.47	43.58
19:30:19	42.56	42.33	43.19	43.82	43.47	43.64	43.65
19:31:19	42.51	42.21	43.17	43.74	43.51	43.82	43.64
19:32:19	42.64	42.48	43.34	43.97	43.64	44.08	43.84
19:33:19	42.70	42.55	43.36	44.00	43.55	43.65	43.71
19:34:19	42.58	42.30	43.27	43.85	43.44	43.52	43.56
19:35:19	42.64	42.27	43.22	43.81	43.37	43.54	43.60
19:36:19	42.42	42.22	43.04	43.70	43.29	43.49	43.53
19:37:19	42.47	42.24	43.22	43.78	43.42	43.83	43.63
19:38:19	42.52	42.20	43.22	43.79	43.55	43.93	43.80
19:39:19	42.42	42.26	43.18	43.76	43.33	43.33	43.52
19:40:19	42.53	42.27	43.17	43.76	43.41	43.39	43.56
19:41:19	42.57	42.30	43.20	43.82	43.36	43.39	43.43
19:42:19	42.63	42.44	43.18	43.83	43.46	43.62	43.66
19:43:19	42.58	42.33	43.30	43.91	43.53	43.82	43.70
19:44:19	42.70	42.35	43.26	43.96	43.56	44.00	43.86
19:45:19	42.47	42.30	43.16	43.74	43.24	43.35	43.46
19:46:19	42.62	42.43	43.27	43.92	43.43	43.56	43.62
19:47:19	42.65	42.34	43.34	43.88	43.43	43.51	43.60
19:48:19	42.59	42.43	43.36	43.86	43.54	43.63	43.57
19:49:19	42.70	42.48	43.39	43.87	43.64	43.89	43.80
19:50:19	42.73	42.49	43.38	44.00	43.71	44.09	43.89
19:51:19	42.87	42.51	43.37	43.96	43.59	43.56	43.67
19:52:19	42.67	42.47	43.39	43.94	43.43	43.49	43.58
19:53:19	42.47	42.28	43.24	43.74	43.36	43.33	43.47
19:54:19	42.63	42.36	43.25	43.92	43.61	43.61	43.61
19:55:19	42.67	42.45	43.30	43.96	43.64	43.88	43.73

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Serial #FI20080627000002

Project #: 905906

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19:56:19	42.79	42.56	43.42	44.02	43.80	44.15	43.96
19:57:19	42.79	42.49	43.37	44.11	43.54	43.56	43.77
19:58:19	42.81	42.57	43.45	44.12	43.79	43.60	43.70
19:59:19	42.55	42.39	43.19	43.85	43.36	43.34	43.37
20:00:19	42.75	42.57	43.39	44.11	43.69	43.74	43.75
20:01:19	42.79	42.68	43.43	43.96	43.72	43.90	43.74
20:02:19	42.82	42.53	43.43	43.96	43.77	44.07	43.84
20:03:19	42.76	42.57	43.40	43.99	43.56	43.51	43.71
20:04:19	42.80	42.63	43.36	44.06	43.56	43.45	43.60
20:05:19	42.86	42.60	43.45	44.05	43.68	43.60	43.66
20:06:19	42.68	42.46	43.26	43.93	43.76	43.69	43.68
20:07:19	42.82	42.58	43.47	44.12	43.74	43.84	43.73
20:08:19	42.91	42.64	43.46	44.07	43.80	44.22	43.89
20:09:19	43.00	42.64	43.45	44.10	43.67	43.69	43.76
Min	33	33	34	34	33	33	34
Max	43	43	43	44	44	44	44

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Manual/Installation Instructions



www.unicair.co.uk

The EndoCube is designed to monitor the refrigeration performance in relation to the refrigerated stored food, whilst smoothing out air temperature irregularities.

The construction of the EndoCube is an inner enclosure containing a high grade, safe food substitute inside an outer enclosure that forms an air barrier within.

This construction will simulate an average small food sample in a pre-packed condition.

Installation

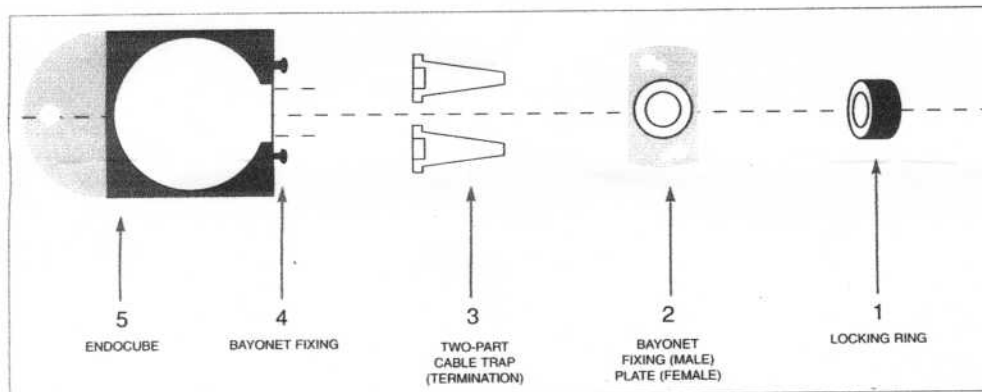
Warning: SHOULD ONLY BE FITTED BY A QUALIFIED REFRIGERATION ENGINEER

Siting of the EndoCube:

The siting of the EndoCube is dependent on the position of the existing sensor or thermostat phial. It is essential to be able to adjust the parameters of a microprocessor (when fitted) if necessary.

Access to the sensor:

- 1 Identify the position of the sensor(s) by removing the panels or in accordance with the manufacturer's specifications.
- 2 Remove the appropriate panels or deck plates.



To fit the EndoCube:

- A Thread sensor and cable through locking ring 1.
- B Thread Bayonet fixing plate 2 as A. (Hollow side of plate to left-hand side).
- C Place two-part cable termination 3 on both sides of cable approximately 1 cm from the probe.
- D Slide forward Bayonet fixing plate 2 over two-part cable termination 3 and lock with locking ring 1.
- E Push sensor probe into recess inside the EndoCube.
- F Lock the assembly onto the EndoCube bayonet fixing 4.

Note: It is a local decision as to whether or not the EndoCube is to be held in position with a screw.

General

- The EndoCube can only be fitted if the thermostat is an air temperature ranged thermostat.
- The EndoCube cannot be fitted to an evaporator-clamped thermostat (which should be changed to a suitable temperature range air thermostat).
- If there is a separate thermometer and thermostat, fit an EndoCube to the thermostat and ThermoCube to the thermometer.
- No benefit will be obtained from the EndoCube either for temperature monitoring or energy saving if the equipment is inadequate, in a poor condition, badly sited or poorly ventilated.

Marking

eCube



Patent no: EP1244949 US 6976368
EC 101 Universal Master Products Ltd
www.ecubedistribution.com

Temperature Mimicking Sensors

Temperature Mimicking Sensors are not intended
to monitor the air temperature of the refrigerated
location in which they are being used

tCube



Patent no: EP1244949 US 6976368
EC 102 Universal Master Products Ltd
www.ecubedistribution.com

Temperature Mimicking Sensors

Temperature Mimicking Sensors are not intended
to monitor the air temperature of the refrigerated
location in which they are being used

3Cube



Patent no: EP1244949 US 6976368
EC 101 Universal Master Products Ltd
www.ecubedistribution.com

Temperature Mimicking Sensors

Temperature Mimicking Sensors are not intended
to monitor the air temperature of the refrigerated
location in which they are being used

Miscellaneous

E-Cube

Refrigeration units commonly monitor circulating air temperature to decide when to switch on and off. But circulating air temperature can rise quickly, far quicker than food, causing refrigeration to work harder than necessary to maintain stored products at the required temperature. This in turn leads to excessive electricity usage and undue wear and tear on the equipment.

E-Cube is the solution.

E-Cube is a food simulant device that allows refrigeration units to work based on the temperature of the stored product. E-Cube can be quickly and easily fitted to most types of refrigeration/ chiller/ freezer unit. Trials have shown fitting an E-Cube will achieve electricity reductions from 16% to 34%, whilst still maintaining stored products within recommended guidelines.



The price of E-Cube is £50

Typical annual savings vary between £50 for a fridge and £170 for a freezer.

Payback on investment in less than 12 months!

T-Cube

Refrigeration systems commonly utilise the measurement of air temperature as a guide to stored product temperatures. But air temperature can fluctuate quickly (when a door is open or during a defrost cycle) and is often not the same as the food temperature.

Legislative guidelines* recognise this fact, stating that ***'...temperature control provisions relate to the temperature of the FOOD and not the air temperature of the holding unit'*** and ***'Damped sensors or simulants – help to overcome the problems of air temperature fluctuations. The probe or simulant material is designed to respond only slowly to fluctuations'***

T-Cube is the solution.

T-Cube is a food simulant device that reacts to temperature fluctuations in a similar way to food. T-Cube can be quickly and easily fitted to most types of refrigeration/ chiller/ freezer unit enabling the integral digital display to show readings equivalent to that of the food.



Price of T-Cube is £

A practical food safety solution at a practical price.

*Industry Guide to Good Hygiene Practice: Catering Guide, published by Chadwick House Group, Chartered Institute of Environmental Health

EndoTherm

Refrigeration systems commonly utilise the measurement of air temperature as a guide to stored product temperatures. But air temperature can fluctuate quickly (when a door is open or during a defrost cycle) and is often not the same as the food temperature.

Legislative guidelines* recognise this fact, stating that ***'...temperature control provisions relate to the temperature of the FOOD and not the air temperature of the holding unit' and 'Damped sensors or simulants – help to overcome the problems of air temperature fluctuations. The probe or simulant material is designed to respond only slowly to fluctuations'***

EndoTherm is the solution.

EndoTherm is an alcohol thermometer encased in a food simulant that reacts to temperature fluctuations in a similar way to food, meeting legislative guidelines for monitoring the temperature of chilled foods, without risking contamination.

Price of EndoTherm is £



A practical food safety solution at a practical price.

* Industry Guide to Good Hygiene Practice: Catering Guide, published by Chadwick House Group, Chartered Institute of Environmental Health

Universal Master Products Limited
PO Box 110 West Wickham BR4 9WL
Tel 0845 644 79780 email: sales@universalmasterproducts.com

Photographs

EC101





EC102



EC 103



