



Food Warming Equipment Co. Inc.
5599 Highway 31W, Portland, TN 37148
• 800-222-4393 •

Service Information

Date: 9-15-26	Number: SI-UHS0001
Subject: INSTRUCTIONS FOR CONVERTING ELECTRONIC CONTROLS TO MANUAL CONTROLS ON UHS, TS AND P MODELS. (Kit # Z-500-1012) (Paperwork # Z-500-3012)	

Purpose: To convert electronic controls (CNTRL-HUMI-TEMP) to manual control (Z-600-1014).

Parts Included:

1- Z-600-1014	2- S8X8THUM	2- SPLICE-CAP-INSULATORS
2- SPLICE-CAP-CRIMP-CONNECTOR	4- CBL TS UNITS	3- PRE-INSUL-CRIMP-CONNECTOR
3- CLP AL3-8	1- 59837	

Installation Instructions:

1. Turn power off to the unit and unplug.
2. Remove the old control board and old sensor.
3. Carefully (do not bend these sharply) work the capillary tubes of the new thermostat and thermometer through the hole in the sidewall of the cabinet and mount with the aluminum clips provided as shown in the picture.



T-Stat Calibration Video: <https://FWE.to/56d3>



T-Meter Calibration Video: <https://FWE.to/ubt2>



4. **IMPORTANT NOTE:** Depending on the vintage of the unit being converted, the orange wire going up to the controls may need to be changed and put with the black wire from the cord.
5. Wire the manual control exactly to the print included. This means you may need to reorganize the lower terminal block, so the orange wire connects to line, not neutral. **The unit should switch line side not neutral!**
6. **Don't use wire nuts.** Use tightly crimped splice caps (included) to connect wires behind controls.
7. Double check making sure all connections are correct and tight.
8. Reinstall the new control board back into the unit.
9. Plug the unit in and power it up.
10. Test the unit to confirm the new control board is operating correctly.

HUMI-TEMP SERIES ELECTRICAL COMPONENT LEGEND

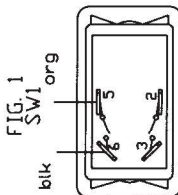
PRINT ID	QTY	PART NUMBER	DESCRIPTION
EL1	1	EL1250/115HT	HEAT ELEMENT 1250W/115V HUMI
LT1	1	LT PLT A/G	(GREEN)
LT2	1	LT PLT A/G	(AMBER)
M1	1	MTR JK120 92	MOTOR 120V/60HZ FASCO
SC1	2	BLD FAN AL	BLADE FAN ALUMINUM 3" 1875-0
SC1	1	CRDSET10/115	14/3 SJT0VA 12 FT CRD 115V NEMA 5-15P
SW1	1	SWH RCK EI	NON LIGHTED ROCKER SWITCH 20A
TBI	1	TRM 30C	TERMINAL BLOCK 3 DC TERM
TS1	1	T-STAT HI	THERMOSTAT HEAT CONTROL 90-190 36°

OPTIONAL 1500W ELEMENT			
EL1	1	EL1500/115HT	HEAT ELEMENT 1500W/115V HUMI

OPTIONAL 1750W ELEMENT			
EL1	1	EL1750/115HT	HEAT ELEMENT 1750W/115V
SC1	1	CRDSET20/115	12/3 SJT0VA 105 12 FT CORD115V NEMA 5-20P

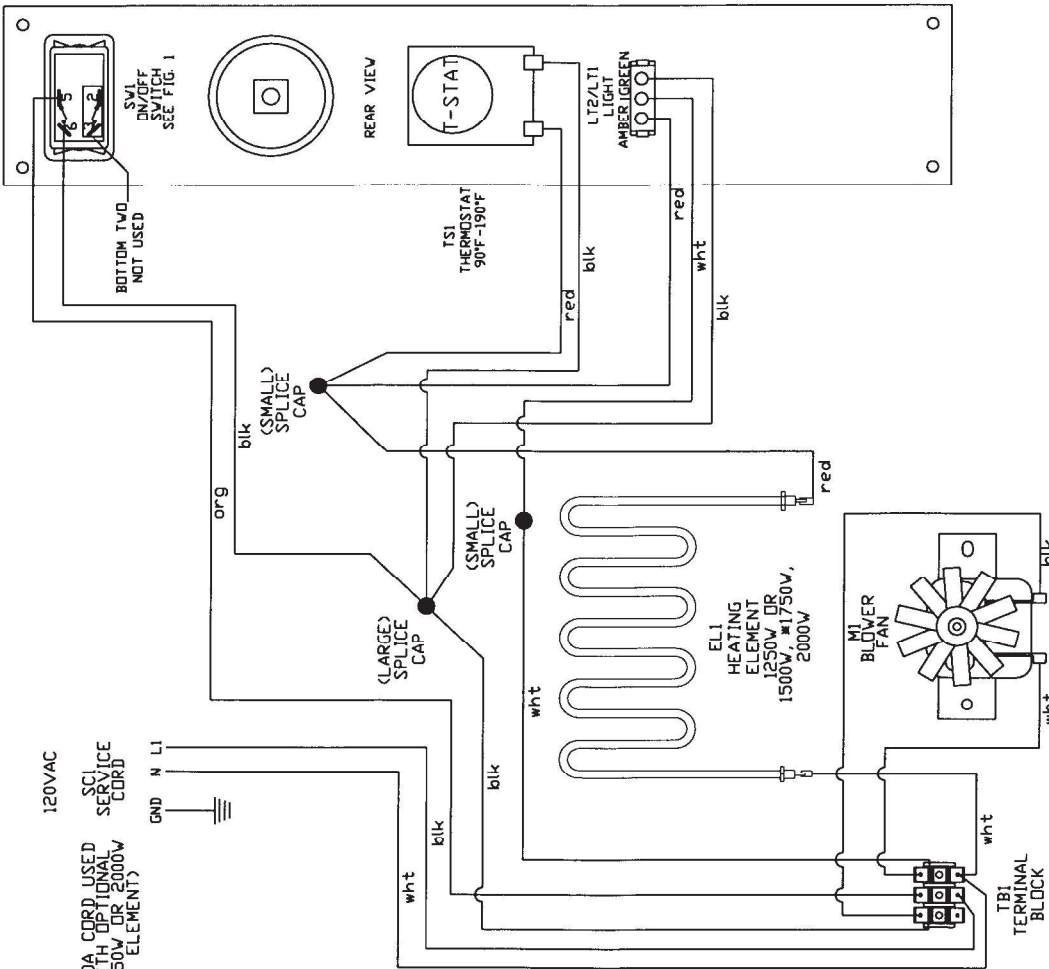
OPTIONAL 2000W ELEMENT			
EL1	1	EL2000/115HT	HEAT ELEMENT 2000W 115V ELEMENT
SC1	1	CRDSET20/115	12/3 SJT0VA 105 12 FT CORD115V NEMA 5-20P

*OPTIONAL 1750W & 2000W ONLY APPLYS TO UHS-5/10, UHS-7/14, UHS-10, UHS-12, UHS-20, UHS-24-B, UHS-36-B, UHS-BQ-80-XL, UHS-BQ-120-XL



ALSO APPLYS TO MODELS WITH THESE ENDINGS

MODEL	DESCRIPTION
DD	DUTCH DOORS
L	LEXAN DOORS
N	NARROW UNITS
P	PASS-THRU
PD	PASS-THRU 2 DUTCH DOORS
PDD	PASS-THRU 4 DUTCH DOORS
UC	UNDER COUNTER



Rev.	Date:	Description of Change:	ECN #:	By:
1	2007	CHANGED NEUTRAL SWITCH TO LINE		N,F

Model# HUMI TEMP SERIES	
Description: 120V POINT TO POINT WIRING DIAGRAM	
Models Applicable to: UHS-4, UHS-5/10, UHS-7, UHS-7/14, UHS-10, UHS-12, UHS-20, UHS-24-B, UHS-36-B, UHS-BQ-80-XL, UHS-BQ-120-XL	

Drawing ID# PP00012A	Section# 1
Date: 7/24/2008	
Drawn By: N. Fiduccia	
Approved By: ENG	

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HUMI-TEMP SERIES ELECTRICAL COMPONENT LEGEND

PRINT ID.	QTY	PART NUMBER	DESCRIPTION
EL1	1	EL1250V/115HT	HEAT ELEMENT 1250V/115V HUMI
LT1	1	LT1 (GREEN)	INDICATOR LIGHT AMBER/GREEN
LT2	1	LT2 (AMBER)	
M1	1	MTR JK120 92	MOTOR 120V/60HZ FASCO
SC1	2	BLD FAN AL	BLADE FAN ALUMINUM 3" 1875-0
SW1	1	GRDSET10/115	14/3 SJTOWA 12 FT CRD 115V NEMA 5-15P
TB1	1	SWH RCK EI	NON LIGHTED ROCKER SWITCH 20A
TS1	1	TRM 30C	TERMINAL BLOCK 3 OC TERM
	1	T-STAT HI	THERMOSTAT HEAT CONTROL 90-190 36'

OPTIONAL 1500W ELEMENT			
EL1	1	EL1500V/115HT	HEAT ELEMENT 1500V/115V HUMI

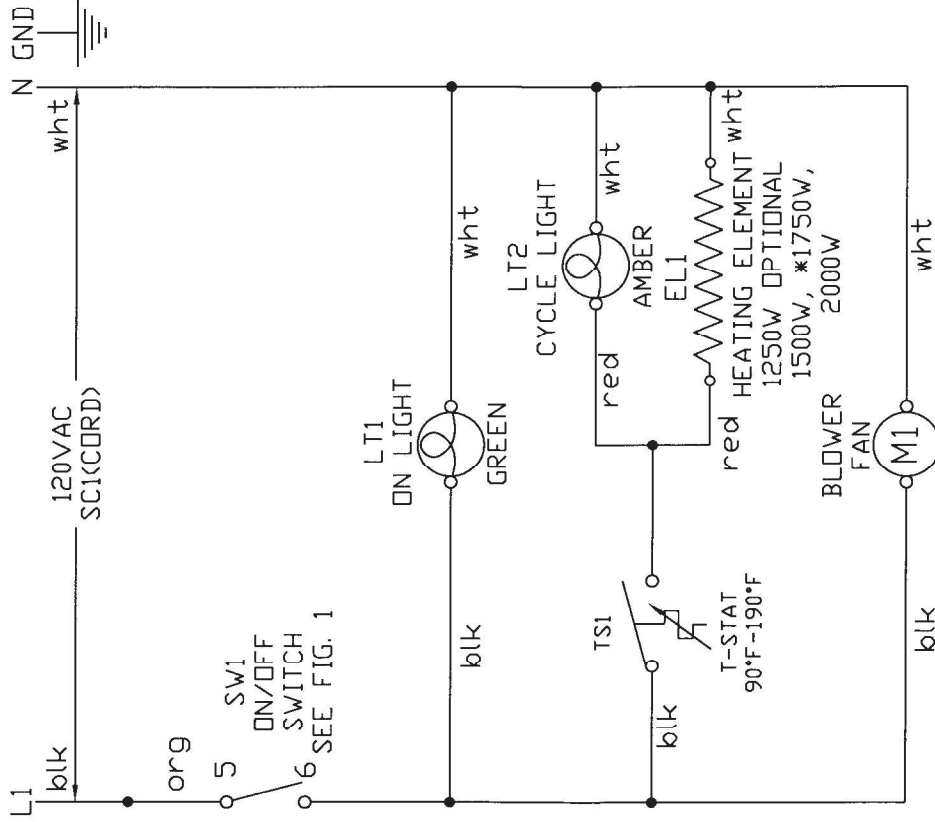
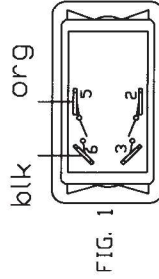
OPTIONAL 1750W ELEMENT *			
EL1	1	EL1750V/115HT	HEAT ELEMENT 1750V/115V
SC1	1	GRDSET20/115	12/3 SJTOWA 105 12 FT CRD115V NEMA 5-20P

OPTIONAL 2000W ELEMENT *			
EL1	1	EL2000V/115HT	HEAT ELEMENT 2000V 115V ELEMENT
SC1	1	GRDSET20/115	12/3 SJTOWA 105 12 FT CRD115V NEMA 5-20P

*OPTIONAL 1750W & 2000W ONLY APPLYS TO UHS-5/10, UHS-7/14, UHS-10, UHS-12, UHS-20, UHS-24-B, UHS-36-B, UHS-BQ-80-XL, UHS-BQ-120-XL

ALSO APPLYS TO MODELS WITH THESE ENDINGS

MODEL	SUFFIX DESCRIPTION
D	DUTCH DOORS
L	LEXAN DOORS
N	NARROW UNITS
P	PASS-THRU
PD	PASS-THRU 2 DUTCH DOORS
PDD	PASS-THRU 4 DUTCH DOORS
UC	UNDER COUNTER



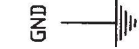
Rev.	Date:	Description of Change:	ECN #:	By:
1	2007	CHANGED NEUTRAL SWITCH TO LINE		N,F

Model# HUMI TEMP SERIES	
Description: 120V LADDER WIRING DIAGRAM	
Models Applicable to: UHS-4, UHS-5/10, UHS-7, UHS-7/14, UHS-10, UHS-12, UHS-20, UHS-24-B, UHS-36-B, UHS-BQ-80-XL, UHS-BQ-120-XL	

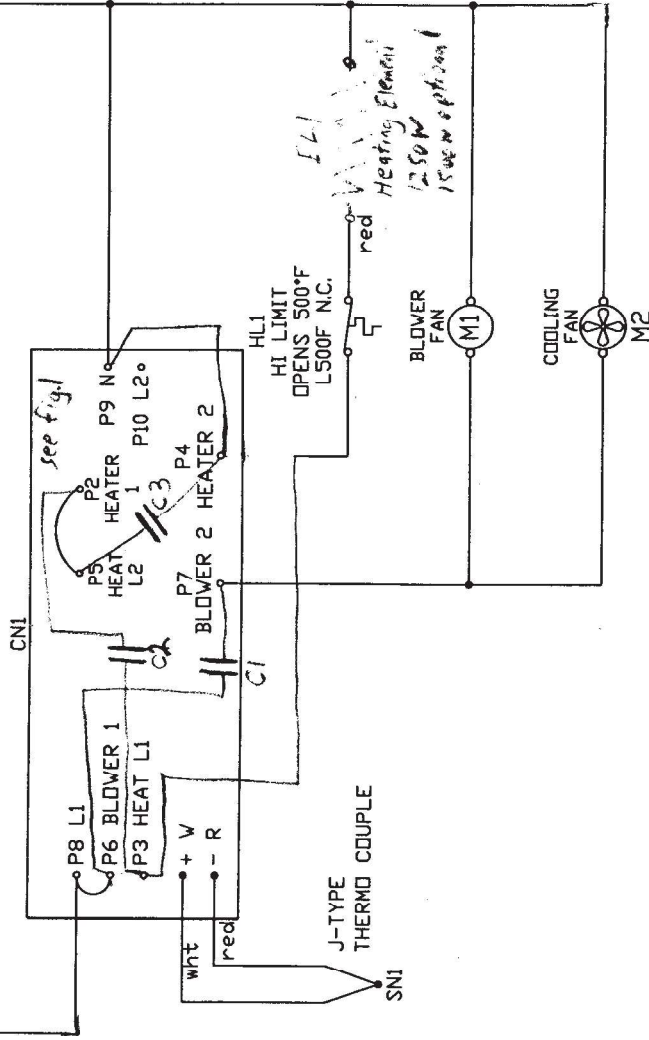
Drawing ID# LD00012A	Date: 7/24/2008
Drawn By: N. Fiduccia	Approved By: ENG
Section# 2	

HUMI-TEMP

(120V, 15A) ELECTRONIC VERSION



120VAC
SC(0.000)



ELECTRICAL COMPONENT LEGEND

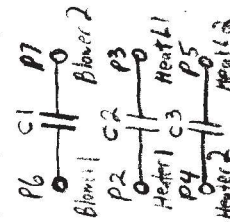
PRINT	QTY	PART NUMBER	DESCRIPTION
C1	1	CONTACT-2 POLE-120V-40AMP	CONTACT 2 POLE 120V 40AMP
CNI	1	CONTROL-HUMI-TEMP-H	FOOD SENTRY CONTROLLER TOP MOUNTS
EL1	1	EL-1500/115 HT	EL232715HT
HL1	1	HI-LIMIT RTH	HI-TEMP SNAP DISC-RTH (500 DEG F)
M1	1	FAN-BLOW 115	BLOWER
M2	1	FAN-BLOW 115	TUBE AXIAL FAN 115V FOR TOP MOUNTS
SC1	1	CRDSE10/115	1473 SJD0VA 12 FT CRD 115V NEMA 5-15P
SN1	1	SENSOR - RTH	TEMPERATURE SENSOR - RTH
TB1	1	TRM BLK RTH	TERMINAL BLOCK RTH
	2	TRM-JMPR-J602-AC	TERMINAL STRIP JUMPER 9/16"CTR J602
	2	TRM-HI-TEMP	QUICK DISCONNECT
	12	TRM QC	LIDE TERMINAL CONNECTION 250FEMH
	2	TRM QC 14-110	QUICK-CONN AMP#3-320116-2
	13	TRM RG	RING#10 AMP# 320574
	2	TRM RG 10-10 HI-TEMP	PRESSURE TERMINAL CONN HIGH TEMP

OPTIONAL 120V ELEMENT	EL1500/115 HT
EL1	1 EL-1500/115 HT

ALSO APPLYS TO MODELS WITH THESE ENDINGS

MODEL SUFFIX	DESCRIPTION
D	DUTCH DOORS
L	LEXAN DOORS
N	NARROW UNITS
P	PASS-THRU
PD	PASS-THRU 2 DUTCH DOORS
PDD	PASS-THRU 4 DUTCH DOORS
UC	UNDER COUNTER

Fig. 1 Board Contacts



Chicago Public School Unit

Rev. Date: Description of Change:

ECN. #: By:

Model# HUMI-TEMP ELECTRONIC CONTROL

Description: 120V LADDER WIRING DIAGRAM

Other Models Applicable to this:

Chicago Public Schools

Drawing ID#

Date:

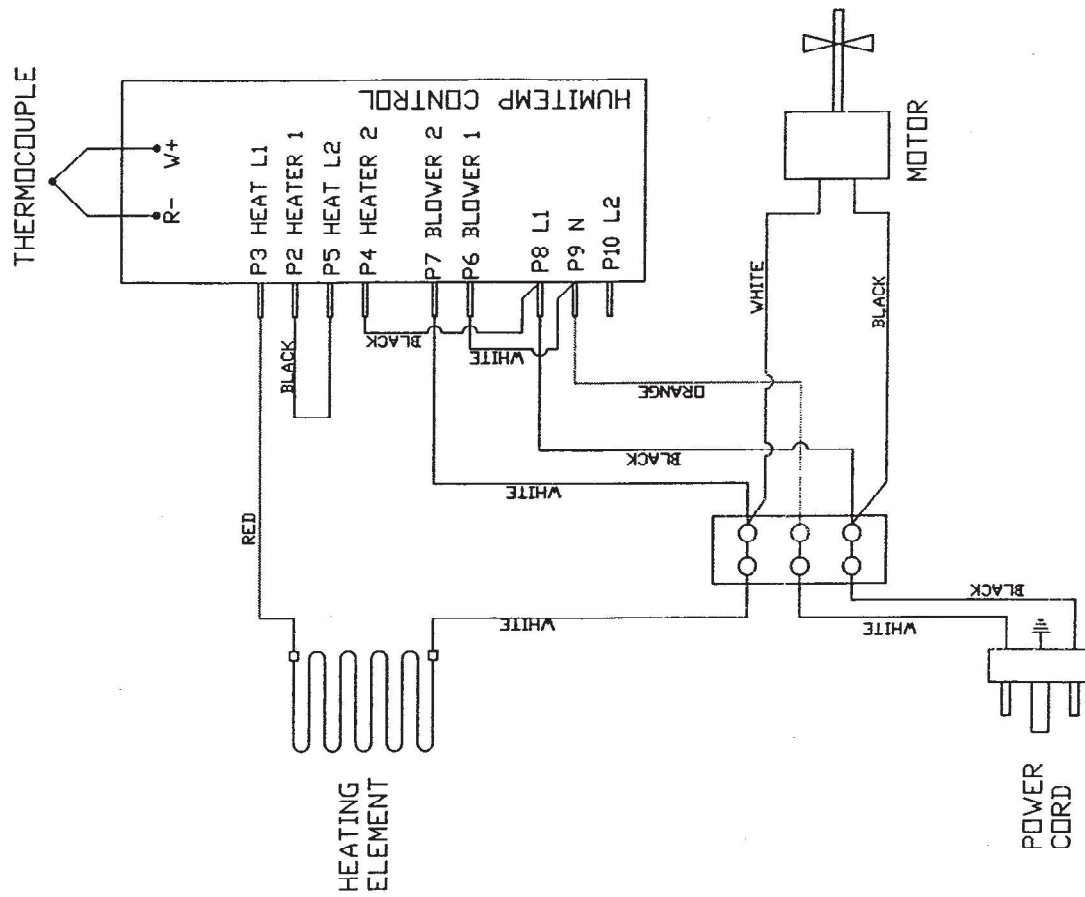
Drawn By: N. Fiduccia

Approved By: ENG

Page

FUE

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REV B

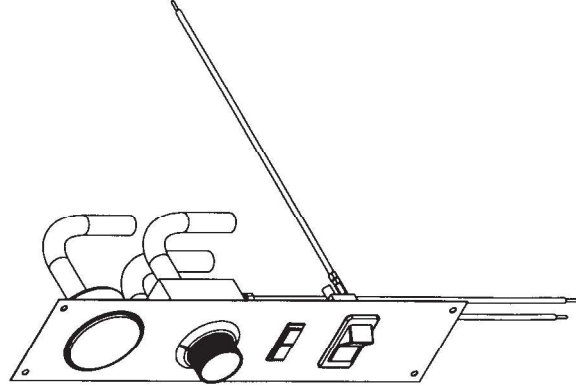
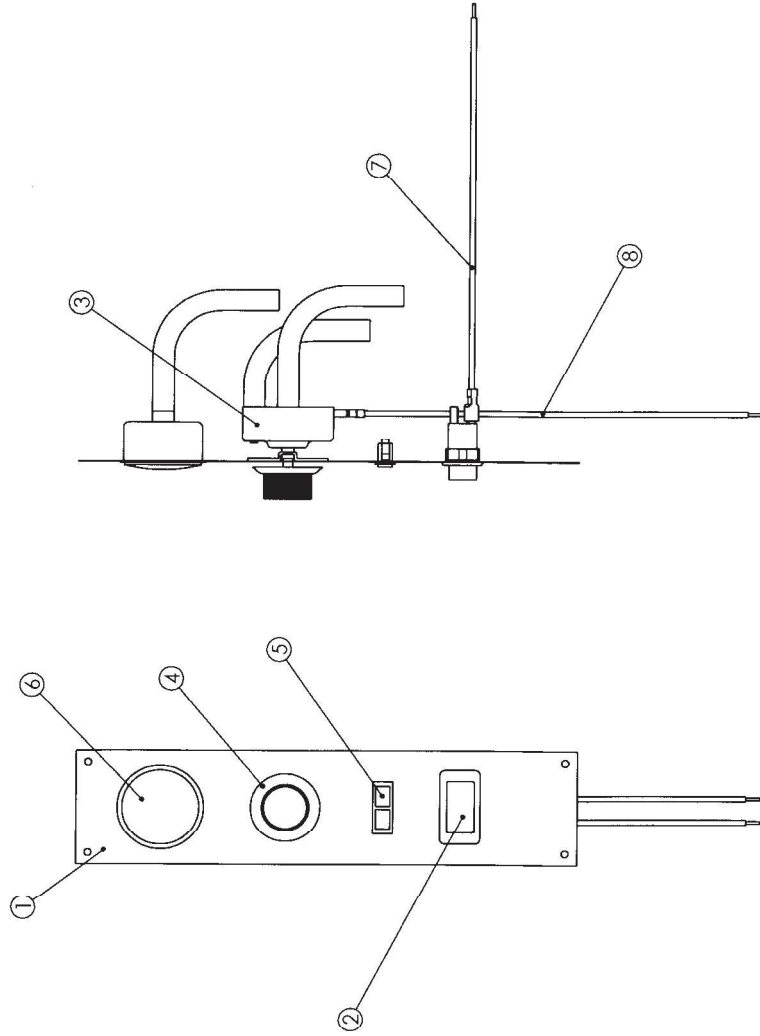
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 FAX (815) 459-1888

Drawn by: MG
 Scale: NONE
 (UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 AND TOLERANCE = ±.0312)

Part#
 Description: ELAN HUMITEMP WIRING DIAGRAM
 Project: ELAN HUMITEMP
 Date: 12-18-02
 Material:
 Blank Size:

Notes:
 1. NOTE ALL FORMED DIMENSIONS ARE O.D.
 UNLESS OTHERWISE SPECIFIED.
 Other Models Applicable to:
 PS, TS, UHS

Drawing ID# ELAN HUMITEMP WIRING DIAGRAM



ITEM NO.	QTY.	PART NO.	DESCRIPTION	Material	Type
1	1	54864	CNTRL-PNL-HUMI-TEMP-AL (BENT)		
2	1	SWH RCK E1	ROCKING SWITCH NON-LT 20A, 125V	BOC	
3	1	T-STAT H1	THERMOSTAT CAB 90-190 36IN	BOC	
4	1	KNB H6	KNOB CONTROL ALUMINUM SKIRT SILVER	BOC	
5	1	LI-PLT-A-G	LIGHT AMBER/GREEN 125V	BOC	
6	1	T-METER H1	THERMOMETER 100/220F	BOC	
7	2	WR BLK HARNESS 8	BLACK WR HARNESS 8	BOC	
8	1	WR RED HARNESS 8	RED WR HARNESS 8	BOC	
9	1	SLV-ACRYLIC-WHITE-7-16 @ 25"	SLEEVING ACRYLIC 7/16 ID WHITE FA1	BOC	
10	1	SLV-ACRYLIC-WHITE-7-16 @ 20"	SLEEVING ACRYLIC 7/16 ID WHITE FA1	BOC	
11	1	SLV-ACRYLIC-WHITE-7-16 @ 30"	SLEEVING ACRYLIC 7/16 ID WHITE FA1	BOC	

REV: E01 REVD DESCRIPTION: REV DATE: Friday, January 13, 2012 11:11:42 AM



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DRAWING #: **Z-600-1014**

DESCRIPTION: **HUMITEMP CONTROL PANEL 120 VOLT**

DRAWN BY: R. SAVAGE

LAST SAVED BY: mgierlson

DIMENSIONS ARE O.D.
UNLESS OTHERWISE SPECIFIED
TOLERANCES:
+/- .031 +/- .1 DEG.

DO NOT SCALE DRAWING