

OPERATION and CARE MANUAL



HEATED DISPLAY CASE

MODELS:

**TY-96
TY-96/PR
TY-96/PL
TY-96/41L
TY-96/41R**

**TYSYS-96
TYSYS-96/PR
TYSYS-96/PL
TYSYS-96/4R
TYSYS-96/41R
TYSYS-96/4L
TYSYS-96/41L**



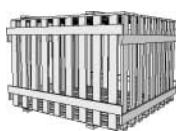
HALO HEAT COOK/HOLD/SERVE SYSTEMS

W 164 N 9221 Water Street • P.O. Box 450 • Menomonee Falls, Wisconsin 53052-0450 U.S.A.
PHONE: 262.251.3800 FAX: 262.251.7067 • 800.329.8744 U.S.A. ONLY WEBSITE:
800.558.8744 U.S.A./CANADA 262.251.1907 INTERNATIONAL www.alto-shaam.com

ALTO-SHAAM® HEATED DISPLAY CASES

UNPACKING and SET-UP

The Alto-Shaam Hot Display Case has been thoroughly tested, checked for calibration, and inspected to insure only the highest quality unit is provided. When you receive your display case, check for any possible shipping damage and report it at once to the delivering carrier. See *Transportation Damage and Claims section* located in this manual.



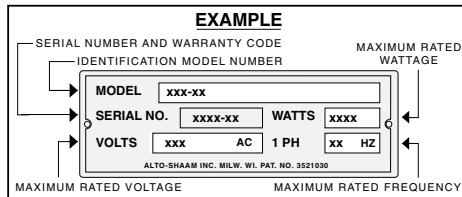
In order to maintain established National Sanitation Foundation standards, all floor models must be sealed to the floor with a R.T.V. or silastic meeting N.S.F. requirements or have 6" (152mm) unobstructed clearance beneath the unit. Counter and table units must be mounted on legs of a sufficient 4" (102mm) height to provide minimum unobstructed space beneath the unit. These legs are supplied with the unit. Warranty will become null and void if these directions are not followed.

Save all the information and instructions packed inside the display case. Complete and return the warranty card to the factory as soon as possible to assure prompt service in the event of a warranty parts and labor claim.

NOTE: Any and all claims for warranty must include the full model and serial number of the display case.

ELECTRICAL INSTALLATION

1. An identification tag is permanently mounted on the case.



2. Plug the case into a properly grounded receptacle ONLY. A proper receptacle or outlet configuration or permanent wiring for this unit must be installed by a licensed electrician in accordance with applicable, local electrical codes. Arcing will occur when connecting or disconnecting the display case unless all controls are in the OFF position.



**ENSURE POWER SOURCE
MATCHES VOLTAGE STAMPED
ON NAMEPLATE OF UNIT**

3. REGARDING INTERNATIONAL STANDARD UNITS: If the unit is not equipped with flexible cord with plug, an all-pole country approved disconnection device which has a contact separation of at least 3mm in all poles must be incorporated in the fixed wiring for disconnection. When using a cord without a plug, the green/yellow conductor shall be connected to the terminal which is marked with the ground symbol. If a plug is used, the socket outlet must be easily accessible. If the power cord needs replacement, use a similar one obtained from the distributor.

PROCEDURES

1. DO NOT ADD WATER TO THE DISPLAY CASE

Halo Heat display cases maintain a constant but gentle temperature and eliminate much of the moisture loss associated with conventional display cases. Because of this gentle heat, it is not necessary to add water to the unit. As a matter of fact, **adding water is not recommended** since water will accelerate the deterioration of the product and may damage the unit.

2. PLACE DIVIDERS and SERVING PANS IN CASE

Refer to the pan layout diagrams for different types of pan accommodations. A complete pan configuration layout is located in this manual. *It is VERY important to note*, no matter what type of pan configuration you choose, **pan divider bars with the desired pans must be in place prior to preheating the unit**. If air gaps are not closed, heat distribution will be uneven, and uniform temperature will be difficult to maintain. Additional pan divider bars are available if needed.

3. TURN ON DISPLAY LIGHTS AND SET THE THERMOSTAT(s) AT NUMBER "10" TO PREHEAT

It is recommended that the bulbs be warmed for a minimum of 15 minutes before use. An indicator light will illuminate when the thermostat(s) is (are) turned "ON." The indicator(s) will remain lit as long as the unit is preheating or calling for heat. The unit should be preheated, at the number 10 setting, for a minimum of thirty minutes before loading the case with food. When preheating is completed, or whenever the unit reaches any temperature set by the operator between 1 and 10, the indicator light(s) will go "OUT".

4. LOAD HOT FOODS INTO THE CASE

Be certain only hot food is transferred into the case. Before loading food into the case, use a pocket-type meat thermometer to make certain all products have reached an internal temperature of 140° to 160° F (60° to 71°C). If any food product is not at proper serving temperature, use a Halo Heat cooking and holding oven, set at 250° to 275°F (121° to 135°C), or use a Combitherm oven to bring the product within the correct temperature range.

- ✓ Use hand protection when handling hot items.
- ✓ Be certain only hot PREPACKAGED foods in appropriate heat tested containers are used in the self-service section of the display case.
- ✓ Do not stack food containers.

5. LOAD HOT FOODS INTO THE CASE

After all product is loaded into the unit and the doors are closed, reset the thermostat. For fully enclosed cases, reset the thermostat to number 8. For self-service sections, maintain the thermostat at number 9 or 10. Cases with a self-service section should be set at number 9 or 10 for the self-service section only. *These settings will not necessarily be final*. Proper temperature range depends on the type of products and the quantities being held (140° to 160° F or 60° to 71°C), so it is necessary to periodically use a pocket thermometer to check each item to make certain the correct temperatures are being maintained. Normally this will require a thermostat setting between 6 and 8 in fully enclosed cases. Self-service cases or sections will always require a higher thermostat setting.

6. MULTIPLE TIMER/PROBE OPTION

A multiple timer/probe system is available for this case. This system is a timer-based food management system, utilized with HACCP programs, that ensures proper rotation, food integrity, safety and quality. The multiple-timer station keys correspond to various pan locations in the display case. Please contact the factory for further information.

7. PLACEMENT OF FOOD PROBE (OPTIONAL)

If the unit is equipped with the probe accessory, wipe each probe and probe tip with a disposable alcohol pad to clean and sanitize before using. If the probe is left in its bracket, the LED temperature display will indicate the ambient air temperature inside the case. To place a probe into food kept in the case, remove the probe from the bracket and push the probe tip halfway into the product, positioning the tip at the center of the food mass. If placing into solid foods such as meat roast or poultry breasts, push the probe in from a straight downward position or in from the side to the center position.

If placing into a semi-liquid or liquid product, the probe cable will probably need to be secured to keep the probe positioned properly. Do not let the probe tip touch the edges or side of the container. Tape the probe cable to the lip or edge of the container. Wipe each probe tip with a clean paper towel to remove food debris after each use. Follow by wiping probes with a disposable alcohol pad. Return each probe to the proper bracket position.

8. SERVE FRESH HOT FOOD

Keep hot foods looking fresh. Occasionally stir or rotate foods as needed. Serve products in the proper package or container. Keep doors closed after serving. Wipe spills immediately to assure maximum eye appeal and to ease end of the day cleanup.

CARE and CLEANING

THOROUGHLY CLEAN THE DISPLAY CASE DAILY

1. Turn lights and adjustable thermostat(s) to the "OFF" position. Remove, cover or wrap, and store unused products under refrigeration.
2. Clean the interior metal surfaces of the cabinet with a damp cloth and any good alkaline or alkaline chlorinated based commercial detergent or grease solvent at the recommended strength. Use a plastic scouring pad or oven cleaner for difficult areas. Avoid the use of abrasive cleaning compounds, chloride based cleaners, or cleaners containing quaternary salts. Rinse carefully to remove all residue and wipe dry.

NOTE: Never use hydrochloric acid (muriatic acid) on stainless steel.

3. Clean the glass with glass cleaner.
4. Maintain the protective film coating on polished stainless steel by cleaning the exterior with a cleaner recommended



for stainless steel. Spray the cleaning agent on a clean cloth and wipe with the grain of the stainless steel.

Remember to follow appropriate state or local health (hygiene) regulations regarding all applicable cleaning and sanitation requirements for food service equipment.

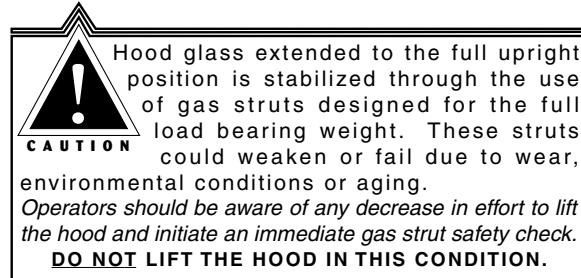
DISCONNECT THE UNIT FROM THE POWER SOURCE BEFORE CLEANING OR SERVICING.



AT NO TIME SHOULD THE CASE BE FLOODED WITH WATER OR LIQUID SOLUTION. NEVER STEAM CLEAN. DO NOT USE WATER JET TO CLEAN. SEVERE DAMAGE OR ELECTRICAL HAZARD COULD RESULT, VOIDING THE WARRANTY.

CLEAN THE PROBES DAILY

Remove all food soil from probes. Wipe entire probe and cable assembly with warm detergent solution and a clean cloth. Remove detergent by wiping each probe and cable with clean rinse water and a cloth. Wipe probes with disposable alcohol pad or sanitizing solution recommended for food contact surfaces. Allow probe and cable to air dry in probe holding bracket.



SAFETY ALERT

This units performance has been optimized using the factory provided bulbs. These bulbs should be replaced with an exact CAUTION replacement or with a factory recommended replacement. These bulbs have been treated to resist breakage and must be replaced with similarly treated bulbs in order to maintain compliance with NSF standards.

Do not over-tighten bulbs in their receptacles as this can cause damage to the bulb filament.



SANITATION GUIDELINE

Food flavor and aroma are usually so closely related that it is difficult, if not impossible, to separate them. There is also an important, inseparable relationship between cleanliness and food flavor. Cleanliness, top operating efficiency, and appearance of equipment contribute considerably to savory, appetizing foods. Good equipment that is kept clean, works better and lasts longer.

Most food imparts its own particular aroma and many foods also absorb existing odors. Unfortunately, during this absorption, there is no distinction between **GOOD** and **BAD** odors. The majority of objectionable flavors and odors troubling food service operations are caused by bacteria growth. Sourness, rancidity, mustiness, stale or other **OFF** flavors are usually the result of germ activity.

The easiest way to insure full, natural food flavor is through comprehensive cleanliness. This means good control of both visible soil (dirt) and invisible soil (germs). A thorough approach to sanitation will provide essential cleanliness. It will assure an attractive appearance of equipment, along with maximum efficiency and utility. More importantly, a good sanitation program provides one of the key elements in the prevention of food-borne illnesses. A controlled holding environment for prepared foods is just one of the important factors involved in the prevention of food-borne illnesses. Temperature monitoring and control during receiving, storage, preparation, and the service of foods are of equal importance.

The most accurate method of measuring safe temperatures of both hot and cold foods is by internal product temperature.

INTERNAL FOOD PRODUCT TEMPERATURES		
HOT FOODS		
DANGER ZONE	40° TO 140°F (4° TO 60°C)	
CRITICAL ZONE	70° TO 120°F (21° TO 49°C)	
SAFE ZONE	140° TO 165°F (60° TO 74°C)	
COLD FOODS		
DANGER ZONE	ABOVE 40°F (ABOVE 4°C)	
SAFE ZONE	36°F TO 40°F (2°C TO 4°C)	
FROZEN FOODS		
DANGER ZONE	ABOVE 32°F (ABOVE 0°C)	
CRITICAL ZONE	0° TO 32°F (-18° TO 0°C)	
SAFE ZONE	0°F OR BELOW (-18°C OR BELOW)	

used on all products that require holding at a specific temperature.

A comprehensive sanitation program should focus on the training of staff in basic sanitation procedures. This includes personal hygiene, proper handling of raw foods, cooking to a safe internal product temperature, and the routine monitoring of internal temperatures from receiving through service.

Most food-borne illnesses can be prevented through proper temperature control and a comprehensive program of sanitation. Both these factors are important to build quality service as the foundation of customer satisfaction. Safe food handling practices to prevent food-borne illness is of critical importance to the health and safety of your customers. HACCP, an acronym for Hazard Analysis (at) Critical Control Points, is a quality control program of operating procedures to assure food integrity, quality, and safety. Taking steps necessary to augment food safety practices are both cost effective and relatively simple. While HACCP guidelines go far beyond the scope of this manual, additional information is available by contacting the USDA/FDA Food-borne Illness Education Information Center at (301)504-6803.

GENERAL HOLDING GUIDELINE

Chefs, cooks and other specialized food service personnel employ varied methods of cooking. Proper holding temperatures for a specific food product must be based on the moisture content of the product, product density, volume, and proper serving temperatures. Safe holding temperatures must also be correlated with palatability in determining the length of holding time for a specific product.

Halo Heat maintains the maximum amount of product moisture content without the addition of water, water vapor, or steam. Maintaining maximum natural product moisture preserves the natural flavor of the product and provides a more genuine taste. In addition to product moisture retention, the gentle properties of Halo Heat maintain a consistent temperature throughout the cabinet without the necessity of a heat distribution fan, thereby preventing further moisture loss due to evaporation or dehydration.

In an enclosed holding environment, too much moisture content is a condition which can be relieved. A product achieving extremely high temperatures in preparation must be allowed to decrease in temperature before being placed in a controlled holding atmosphere. If the product is not allowed to decrease in temperature, excessive condensation will form increasing the moisture content on the outside of the product.

Most Halo Heat Holding Equipment is provided with a thermostat control between 60° and 200°F (16° to 93°C). If the unit is equipped with vents, close the vents for moist holding and open the vents for crisp holding.

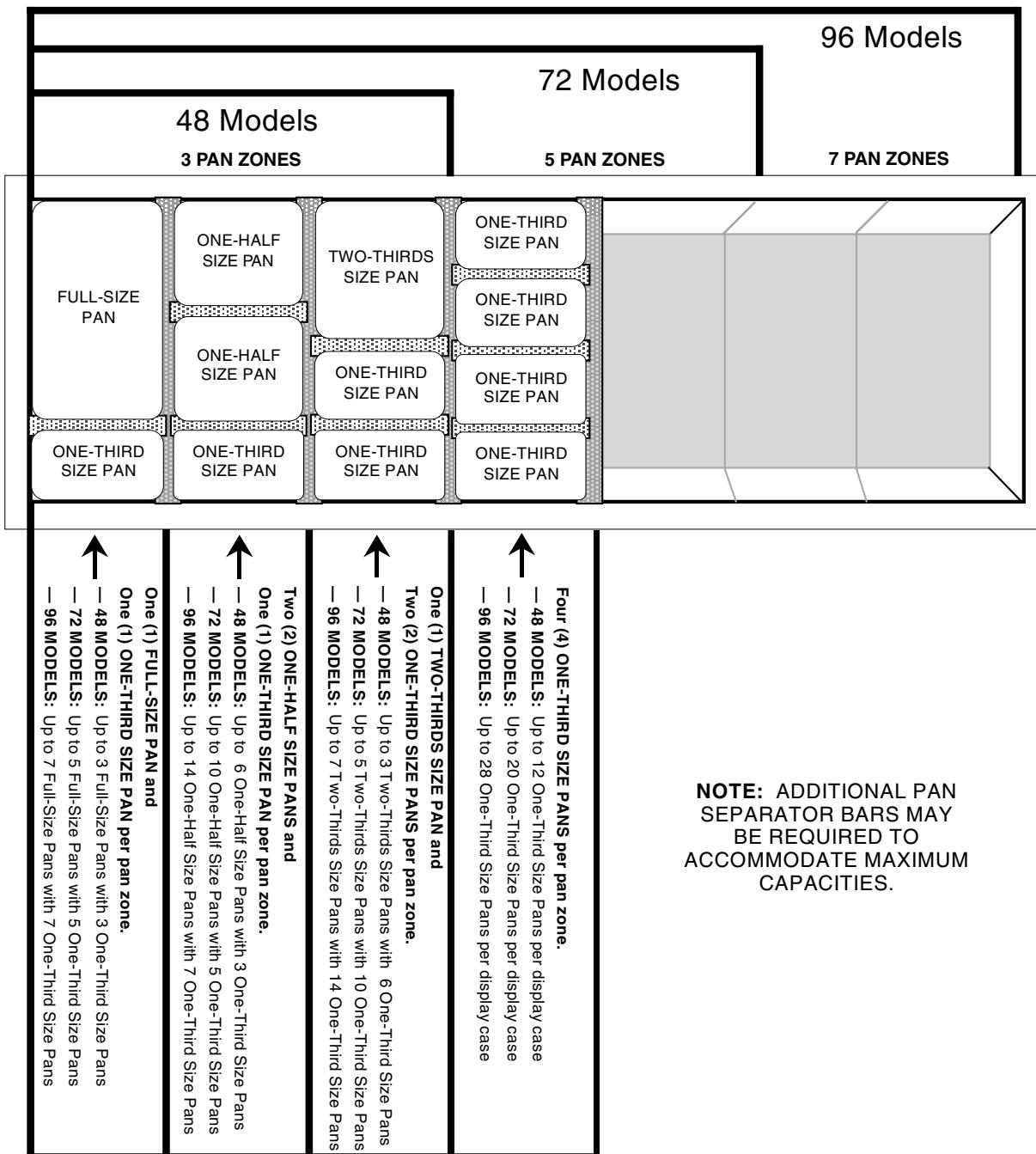
If the unit is equipped with a thermostat indicating a range of between 1 and 10, use a metal-stemmed indicating thermometer to measure the internal temperature of the product(s) being held. Adjust the thermostat setting to achieve the best overall setting based on internal product temperature.

HOLDING TEMPERATURE RANGE		
MEAT	FAHRENHEIT	Celsius
BEEF ROAST — Rare	140°F	60°C
BEEF ROAST — Med/Well Done	160°F	71°C
BEEF BRISKET	160° — 175°F	71° — 79°C
CORN BEEF	160° — 175°F	71° — 79°C
PASTRAMI	160° — 175°F	71° — 79°C
PRIME RIB — Rare	140°F	60°C
STEAKS — Broiled/Fried	140° — 160°F	60° — 71°C
RIBS — Beef or Pork	160°F	71°C
VEAL	160° — 175°F	71° — 79°C
HAM	160° — 175°F	71° — 79°C
PORK	160° — 175°F	71° — 79°C
LAMB	160° — 175°F	71° — 79°C
POULTRY		
CHICKEN — Fried/Baked	160° — 175°F	71° — 79°C
DUCK	160° — 175°F	71° — 79°C
TURKEY	160° — 175°F	71° — 79°C
GENERAL	160° — 175°F	71° — 79°C
FISH/SEAFOOD		
FISH — Baked/Fried	160° — 175°F	71° — 79°C
LOBSTER	160° — 175°F	71° — 79°C
SHRIMP — Fried	160° — 175°F	71° — 79°C
BAKED GOODS		
BREADS/ROLLS	120° — 140°F	49° — 60°C
MISCELLANEOUS		
CASSEROLES	160° — 175°F	71° — 79°C
DOUGH — Proofing	80° — 100°F	27° — 38°C
EGGS — Fried	150° — 160°F	66° — 71°C
FROZEN ENTREES	160° — 175°F	71° — 79°C
HORS D'OEUVRES	160° — 180°F	71° — 82°C
PASTA	160° — 180°F	71° — 82°C
PIZZA	160° — 180°F	71° — 82°C
POTATOES	180°F	82°C
PLATED MEALS	180°F	82°C
SAUCES	140° — 200°F	60° — 93°C
SOUP	140° — 200°F	60° — 93°C
VEGETABLES	160° — 175°F	71° — 79°C

THE HOLDING TEMPERATURES LISTED ARE SUGGESTED GUIDELINES.

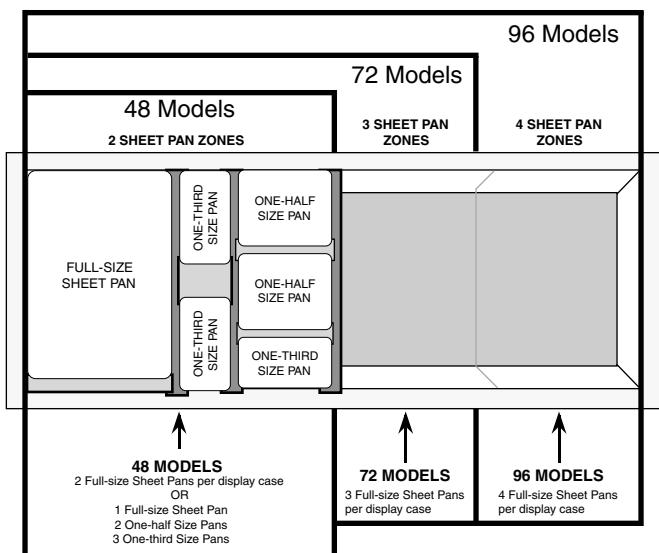
PAN CONFIGURATIONS

DISPLAY CASES



ITEM NO.	DESCRIPTION	SIZE (W x L)	MODELS			
			48	72	96	
11046	SHEET PAN DIVIDER BAR	1-3/8" x 27-13/16"	(35mm x 706mm)	1	—	—
11047	ONE-THIRD SIZE PAN	3-1/4" x 7"	(83mm x 178mm)	1	—	—
11317	FULL, HALF & THIRD SIZE - LONG	1" x 27-7/8"	(25mm x 708mm)	2	4	6
11318	FULL, HALF & THIRD SIZE - SHORT	1" x 12-3/4"	(25mm x 324mm)	9	15	21
11319	SHEET PAN DIVIDER BAR	3-1/4" x 27-3/16"	(83mm x 706mm)	1	—	—
11320	SHEET PAN DIVIDER BAR	1-3/4" x 17-3/4"	(45mm x 451mm)	2	3	4
11357	SHEET PAN DIVIDER BAR	5-29/32" x 27-13/16"	(150mm x 706mm)	—	2	3
11732	SHEET PAN FILLER	3-3/4" x 27-13/16"	(95mm x 706mm)	—	—	1
1865	GASTRONORM DIVIDER (220V)	7/8" x 27-7/8"	(22mm x 708mm)	2	4	6

SHEET PAN CONFIGURATIONS • HOT DISPLAY CASES



SAFETY ALERT

This unit's performance has been optimized using the factory provided bulbs. These bulbs should be replaced with an exact replacement or with a factory recommended replacement. These bulbs have been treated to resist breakage and must be replaced with similarly treated bulbs in order to maintain compliance with NSF standards. Do not over-tighten bulbs in their receptacles as this can cause damage to the bulb filament.

Cable Heating Service Kits for TY-96/PL & TY-96/PR and TYSYS-96/PL or PR

	#4881 (full-service)	#4878 (self-service)
includes:		
CB-3045	Cable Heating Element	210'
CR-3226	Ring Connector	12
IN-3488	Insulation Corner	1'
BU-3105	Shoulder Bushing	12
BU-3106	Cup Bushing	12
SL-3063	Insulating Sleeve	12
TA-3540	Electrical Tape	1 roll
NU-2215	10x32 Hex Nut	24
ST-2439	Stud	12
		4

ACCESSORIES

Custom Panel, End Panel & Bumper Colors	FACTORY QUOTE
End Panels	
— Black Patch	PE-22708
— Solid Black Patch, Right Hand	PE-23674
— Solid Black Patch, Left Hand	PE-23675
End Patch/Kiosk Assembly Kit, s/s, TY ONLY	14600
Bulbs	
— 100 Watt, 130V STANDARD, HALOGEN	LP-33592
— 100 Watt, 130V, BLUE TINT	LP-33253
— 100 Watt, 230V STANDARD, HALOGEN	LP-3384
Carvery Station, single well	55299
Independent Circuit Cordset Pkg. TY 120V ONLY	14221
Independent Load Center Pkg. TYSYS 120V ONLY	14220
NOT CSA APPROVED	
Interior Ambient Temperature Gauge	GU-33384
Multiple Timer/Probe Package	CONTACT FACTORY
Pan, Self-Serve, Insert, 4" DEEP (TY-96/4R, 4L)	14988
Product Probe Package: 120V ONLY	
— TY-96	5297
— TY-96/PL, /PR	5296
— TY-96/4L, /4R, /41L, /41R	5295
Reflective Tempered Glass Case End Panes	
— RIGHT-HAND	GL-22539
— LEFT-HAND	GL-22538
Scale Platform Package 120V ONLY	14102
Stainless Steel Front Panel	12646
Tempered Glass End Spacer	GL-22719



Hood glass extended to the full upright position is stabilized through the use of gas struts designed for the full load bearing weight. These struts could weaken or fail due to wear, environmental conditions or aging.

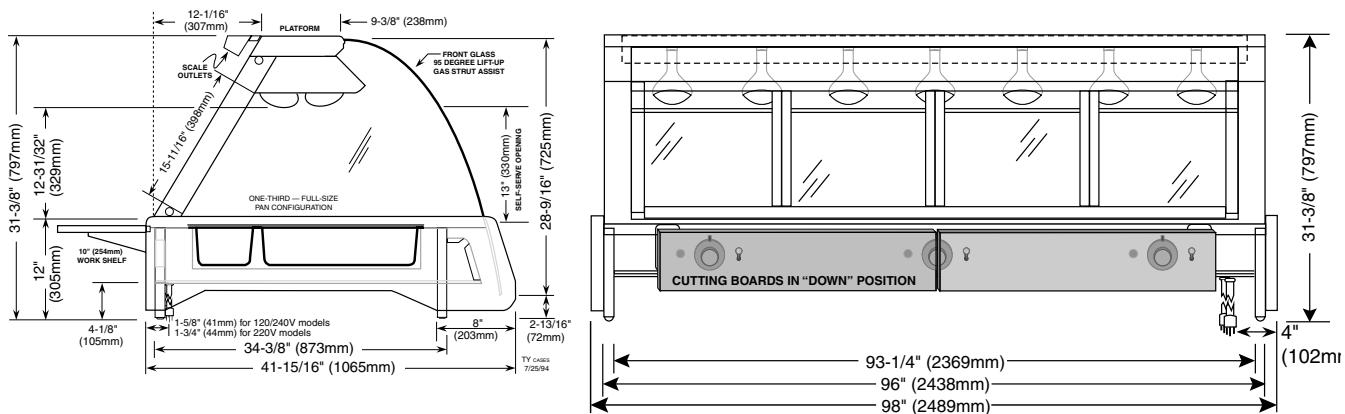
Operators should be aware of any decrease in effort to lift the hood and initiate an immediate gas strut safety check.

DO NOT LIFT THE HOOD IN THIS CONDITION.



At no time should the inside or outside of the cabinet be flooded with water or liquid solution. **NEVER STEAM CLEAN.** **Do not use water jet to clean.** Severe damage or electrical hazard could result, voiding the warranty.

TY-96 HOT DISPLAY CASE

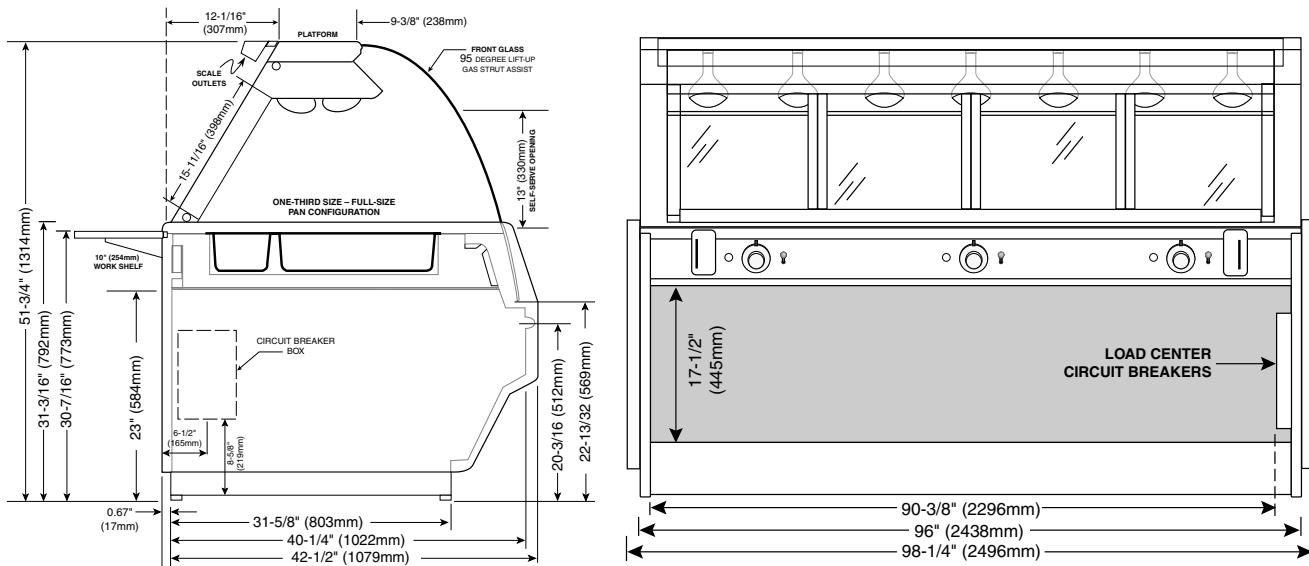


Cable Heating Service Kit No. 14228 for TY-96 & TYSYS-96

includes:

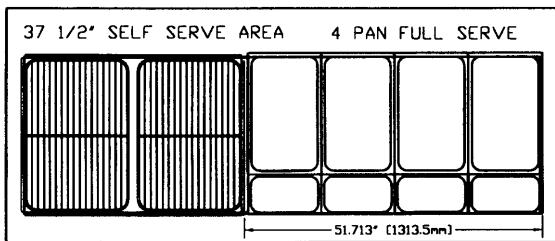
CB-3045	Cable Heating Element	265 feet
CR-3226	Ring Connector	8
IN-3488	Insulation Corner	1 foot
BU-3105	Shoulder Bushing	8
BU-3106	Cup Bushing	8
SL-3063	Insulating Sleeve	8
TA-3540	Electrical Tape	1 roll
NU-2215	10x32 Hex Nut	32
ST-2439	Stud	8

TYSYS-96 HOT DISPLAY CASE

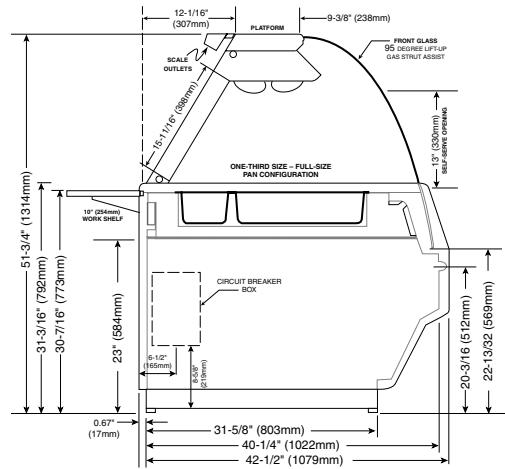
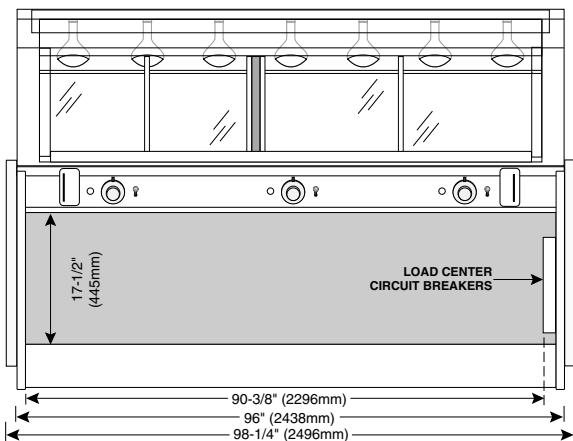


TYSYS-96/41R

- CUSTOMER SIDE -

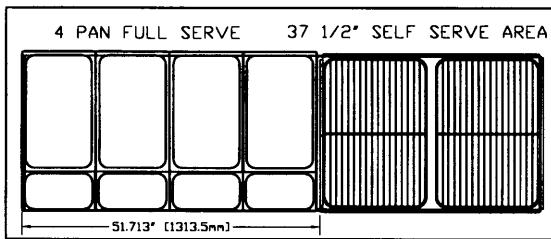


- OPERATOR SIDE -

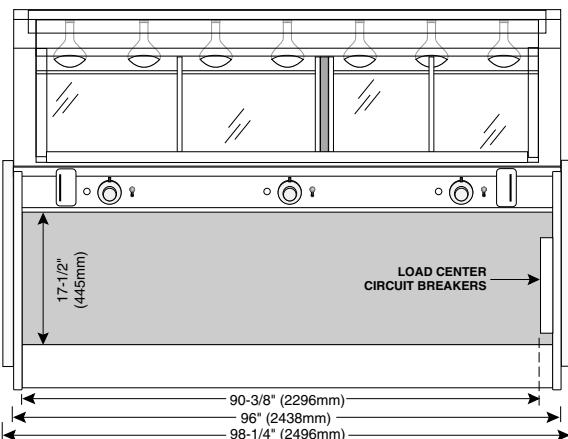


TYSYS-96/41L

- CUSTOMER SIDE -



- OPERATOR SIDE -



Cable Heating Service Kit No. 14228 for TYSYS-96/4L & TYSYS-96/4R TYSYS-96/41L & TYSYS-96/41R

includes:

CB-3045	Cable Heating Element	265 feet
CR-3226	Ring Connector	8
IN-3488	Insulation Corner	1 foot
BU-3105	Shoulder Bushing	8
BU-3106	Cup Bushing	8
SL-3063	Insulating Sleeve	8
TA-3540	Electrical Tape	1 roll
NU-2215	10x32 Hex Nut	32
ST-2439	Stud	8

TY-96

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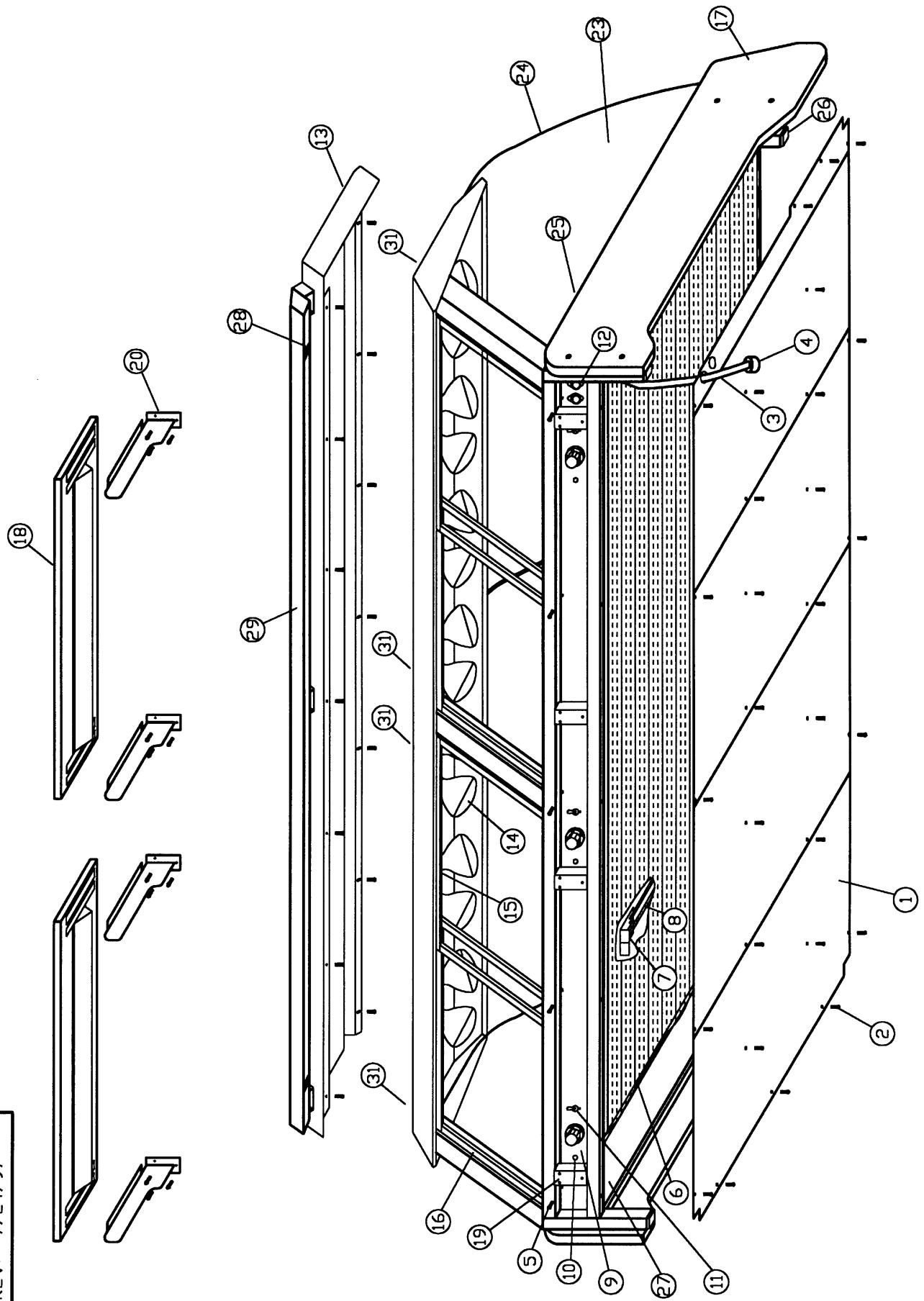
PART DESCRIPTION	QTY	A/S PT NO.
1. END PANEL BOTTOM	1	13028
END PANEL BOTTOM, 230V	1	13986
4' (1219mm) RIGHT-HAND BOTTOM PANEL	1	13029
8' (2438mm) BOTTOM PANEL	1	13032
6' (1829mm) BOTTOM PANEL	1	13031
4' (1219mm) LEFT-HAND BOTTOM PANEL	1	13030
2. 8-32x1/2" S/S TRUSS HEAD SCREWS	29	SC-2425
8-32x1/4" S/S TRUSS HEAD SCREWS	2	SC-2459
3. CORD, 120/240V	1	CD-3987
CORD, 230V, NO PLUG	1	CD-33489
4. PLUG, 120/240V	1	PG-3988
5. CONTROL PANEL MOUNTING SCREWS	5	SC-2459
6. INSULATION 1.5"x25.5"x120" (38mmx648mmx3048mm)	2.5	IN-22364
7. CABLE CONNECTION HARDWARE		
8. HEATING CABLE, 264' (80467mm)		CB-3045
9. THERMOSTAT	3	TT-3498
THERMOSTAT KNOB	3	KN-3473
10. INDICATOR LIGHT	3	LI-3025
INDICATOR LIGHT, 230V	3	LI-3951
INDICATOR LIGHT MOUNTING NUT	3	NU-3335
11. BULB SWITCH	3	SW-3616
12. FUSEHOLDER, 120/240V	2	FU-33041
INCLUDES:		
FUSE, 15 AMP	2	FU-3775
FUSEHOLDER MOUNTING SCREWS	4	SC-2077
13. TOP	1	4449
TOP MOUNTING SCREWS	7	SC-2425
TOP MOUNTING SCREWS	7	SC-2459
14. BULB	14	LP-33592
BULB, 230V	14	LP-3384
15. BULB SOCKETS	14	RP-3952
BULB SOCKETS, 230V	14	RP-3955
16. DOOR ASSEMBLY	1	DR-22482
INCLUDES:		
LEFT HAND GLASS DOOR - IN	2	DR-22482A
RIGHT HAND GLASS DOOR - OUT	2	DR-22482B
TOP TRACK	2	TK-23750
BOTTOM TRACK, 8' (2438mm)	2	TK-24267
GUIDES #44049	16	DR-22480F
DOOR BUMPER ASSEMBLY	2	DR-22480G
17. END PANEL, WHITE	2	PE-22585
18. CUTTING BOARD ASSEMBLY	2	4016
19. CUTTING BOARD BRACKET (BASE)	4	12069
CUTTING BOARD BRACKET MTG. SCREWS	12	SC-24520
20. CUTTING BOARD BRACKET	4	BT-2342
23. END GLASS	2	GL-22479
END GLASS GASKET: 4' (1219mm)	1	GS-22547
24. FRONT GLASS	2	GL-22477
25. PAN DIVIDER BARS (not shown)		
FULL/HALF/THIRD (LONG BAR)	6	11317
FULL/HALF/THIRD (SHORT BAR)	21	11318
SHEET PAN	4	11320
S-PAN DIVIDER (LONG)	3	11357
SHEET PAN FILLER BAR: 3-3/4" (95mm)	1	11732
26. ADJUSTABLE LEGS	4	LG-22686
27. TERMINAL BLOCK	1or2	BK-3597
28. SNAP-IN RECEPTACLES, FOR SCALE, 120/240V	2	RP-3396
RECEPTACLE FUSE, 15A, 120/240V	1	FU-33351
RECEPTACLE FUSEHOLDER, 15A	1	FU-33352
29. OUTLET HOUSING COVER	1	4981
30. 8' PROBE PACKAGE OPTION (not shown)	120/240V	1
30. 8' PROBE PACKAGE OPTION (not shown)	120/240V	1
31. FRONT GLASS STRUTS	4	SU-22702
32. OPTION (not shown) *NOT CSA APPROVED		
INDEPENDENT CIRCUIT CORDSET 120/240V	1	14221
INDEPENDENT CIRCUIT CORDSET 230V	1	14222

TYSYS-96

PART DESCRIPTION	QTY	A/S PT NO.
1. END PANEL BOTTOM	1	13028
4' (1219mm) RIGHT-HAND BOTTOM PANEL	1	13029
8' (2438mm) BOTTOM PANEL	1	13032
6' (1829mm) BOTTOM PANEL	1	13031
4' (1219mm) LEFT-HAND BOTTOM PANEL	1	13030
2. 8-32x1/2" S/S TRUSS HEAD SCREWS	29	SC-2425
8-32x1/4" S/S TRUSS HEAD SCREWS	2	SC-2459
3. CONTROL PANEL MOUNTING SCREWS	5	SC-2459
4. CONDUIT TUBING: .7" (213mm)	2	TU-3874
5. INSULATION 1.5"x25.5"x120" (38mmx648mmx3048mm)	2.5	IN-22364
6. CABLE CONNECTION HARDWARE		
7. HEATING CABLE, 264' (80467mm)		CB-3045
8. THERMOSTAT	3	TT-3498
THERMOSTAT KNOB	3	KN-3473
9. INDICATOR LIGHT	3	LI-3025
INDICATOR LIGHT, 230V	3	LI-3951
INDICATOR LIGHT MOUNTING NUT	3	NU-3335
10. BULB SWITCH	3	SW-3616
11. TOP	1	4449
TOP MOUNTING SCREWS	7	SC-2425
TOP MOUNTING SCREWS	7	SC-2459
12. BULB	14	LP-33592
BULB, 230V	14	LP-3384
13. BULB SOCKET	14	RP-3952
BULB SOCKET, 230V	14	RP-3955
14. CIRCUIT BOX	1	CI-3906
INCLUDES: BREAKER, 15 AMP	2	CI-33071
BREAKER, 30 AMP	2	CI-3908
GROUND BAR KIT	1	CI-3878
15. DOOR ASSEMBLY	1	DR-22482
INCLUDES: LEFT HAND GLASS DOOR - IN	2	DR-22482A
RIGHT HAND GLASS DOOR - OUT	2	DR-22482B
TOP TRACK	2	TK-23750
BOTTOM TRACK, 8' (2438mm)	2	TK-24267
GUIDES #44049	16	DR-22480F
DOOR BUMPER ASSEMBLY	2	DR-22480G
16. END PANEL, WHITE	2	PE-22493
17. CUTTING BOARD ASSEMBLY	2	4016
18. CUTTING BOARD BRACKET (BASE)	4	12069
CUTTING BOARD BRACKET MTG. SCREWS	12	SC-24520
19. CUTTING BOARD BRACKET	4	BT-2342
22. END GLASS	2	GL-22479
END GLASS GASKET: 4' (1219mm)	1	GS-22547
23. FRONT GLASS	2	GL-22477
24. BASE BOTTOM	1	1420
25. PAN DIVIDER BARS (not shown)		
FULL/HALF/THIRD (LONG BAR)	6	11317
FULL/HALF/THIRD (SHORT BAR)	21	11318
SHEET PAN	4	11320
S-PAN DIVIDER (LONG)	3	11357
SHEET PAN FILLER BAR: 3-3/4" (95mm)	1	11732
26. SNAP-IN RECEPTACLES, FOR SCALE, 120/240V	2	RP-3396
27. OUTLET HOUSING COVER, 120V	1	4981
28. RECEPTACLE FUSE, 15A, 120/240V	1	FU-33351
RECEPTACLE FUSEHOLDER, 15A	1	FU-33352
29. FRONT GLASS STRUTS	4	SU-22702
30. 8' PROBE PACKAGE OPTION (not shown)	120/240V	1
31. OPTIONAL LOAD CENTER PACKAGE (not shown)	1	14220
INCLUDES: LOAD CENTER	1	CI-3877
GROUND BAR KIT	1	CI-3878
BREAKER, 15 AMP	1	CI-33071
CONNECTOR	1	CR-3953
NUT	1	NU-3954

11-08-94

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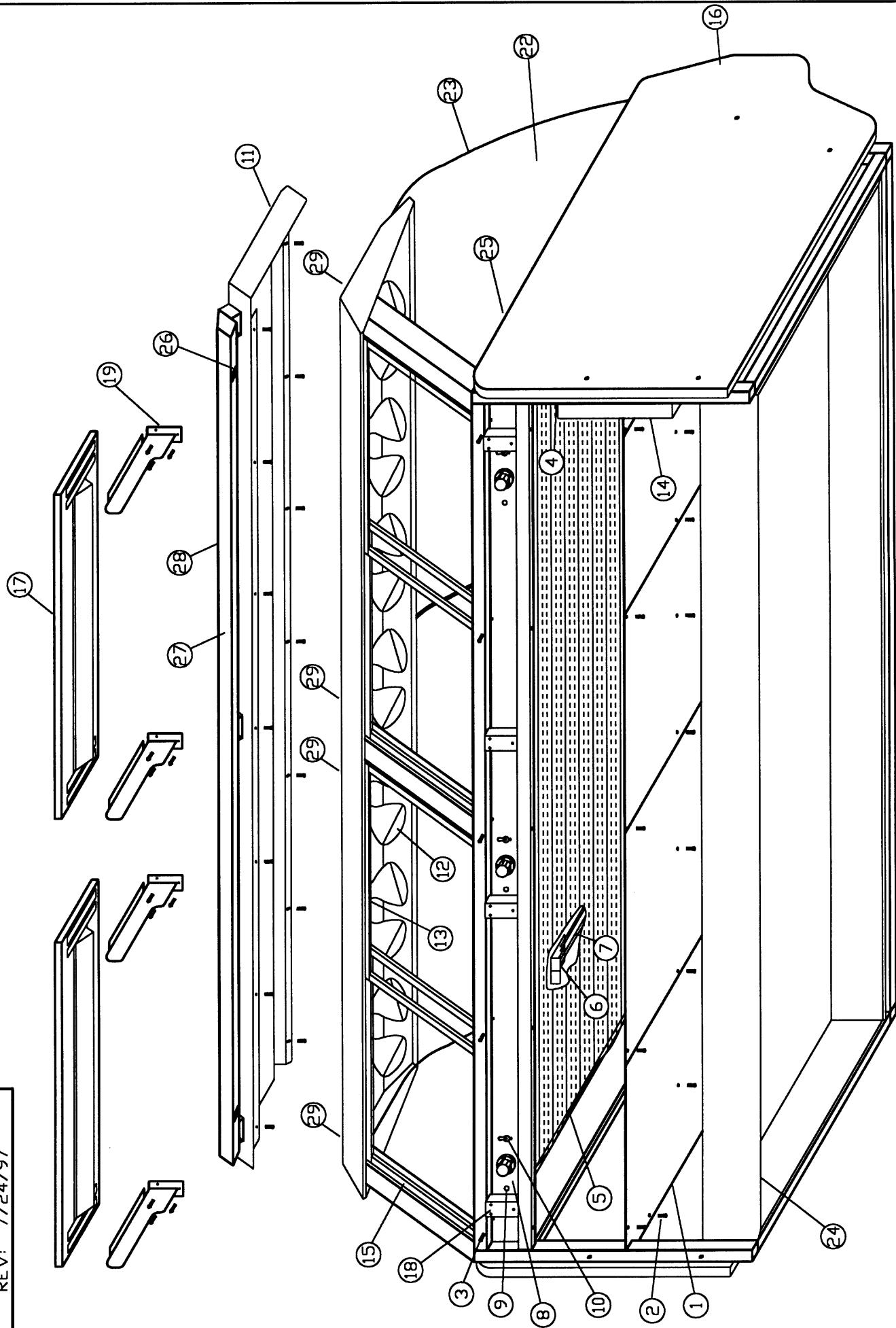


TY-96
SERVICE VIEW
REV: 7/24/97

TYSSYS-96
SERVICE VIEW
REV: 7/24/97

11-08-94

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TY-96/PL PASS-THRU LEFT

12-22-00	PART DESCRIPTION	QTY	A/S PT NO.
1. END PANEL BOTTOM	1	13028	
END PANEL BOTTOM, 230V	1	13986	
4' (1219mm) RIGHT-HAND BOTTOM PANEL	1	13029	
8' (2438mm) BOTTOM PANEL	1	13032	
6' (1829mm) BOTTOM PANEL	1	13031	
4' (1219mm) LEFT-HAND BOTTOM PANEL	1	13030	
2. 8-32x1/2" S/S TRUSS HEAD SCREWS	29	SC-2425	
8-32x1/4" S/S TRUSS HEAD SCREWS	2	SC-2459	
3. CORD, 120/240V	1	CD-3987	
CORD, 230V, NO PLUG	1	CD-33489	
4. PLUG, 120/240V	1	PG-3988	
5. CONTROL PANEL MOUNTING SCREWS	5	SC-2459	
6. INSULATION 1.5" x 25.5" x 120" (38mm x 648mm x 3048mm)	2.5	IN-22364	
7. CABLE CONNECTION HARDWARE			
8. HEATING CABLE: 66' (20117mm)		CB-3045	
HEATING CABLE: 205' (62484mm)		CB-3045	
9. THERMOSTAT	4	TT-3498	
THERMOSTAT KNOB	4	KN-3473	
10. INDICATOR LIGHT	4	LI-3025	
INDICATOR LIGHT, 230V	4	LI-3951	
INDICATOR LIGHT MOUNTING NUT	4	NU-3335	
11. BULB SWITCH	3	SW-3616	
12. TOP	1	4469	
TOP MOUNTING SCREWS	7	SC-2425	
TOP MOUNTING SCREWS	7	SC-2459	
13. BULBS	14	LP-33592	
BULBS, 230V	14	LP-3384	
14. BULB SOCKETS	14	RP-3952	
BULB SOCKETS, 230V	14	RP-3955	
15. DOOR ASSEMBLY	1	DR-22481	
INCLUDES: LEFT HAND GLASS DOOR - IN	1	DR-22481A	
RIGHT HAND GLASS DOOR - IN	1	DR-22481B	
TOP TRACK	1	TK-23749	
BOTTOM TRACK, 6' (2438mm)	1	TK-24266	
CENTER GLASS - DOOR OUT	2	DR-22481E	
GUIDES #44049	16	DR-22480F	
DOOR BUMPER ASSEMBLY	2	DR-22480G	
16. SELF-SERVE DOOR, LEFT HAND	1	4407	
HINGE, LEFT-HAND	2	HG-22167	
17. SELF-SERVE DOOR, RIGHT-HAND	1	4409	
HINGE, RIGHT-HAND	2	HG-22168	
HINGE BUSHING	4	BU-2722	
HINGE MOUNTING SCREWS	8	SC-2352	
18. END PANEL, WHITE	2	PE-22585	
19. CUTTING BOARD ASSEMBLY	1	4017	
20. CUTTING BOARD BRACKET (BASE)	2	12069	
CUTTING BOARD BRACKET MTG. SCREWS	6	SC-24520	
21. CUTTING BOARD BRACKET	2	BT-2342	
24. END GLASS	2	GL-22479	
END GLASS GASKET: 4' (1219mm)	1	GS-22547	
25. INNER END GLASS	1	GL-22497	
DIVIDER GLASS GASKET: 3' (914mm)	1	GS-22548	
26. FRONT GLASS: 6' (1829mm)	1	GL-22478	
27. SELF-SERVE GLASS: 2' (610mm)	1	GL-22474	
28. CUSTOMER HEAT GUARD, 2' (610mm)	1	11115	
29. PAN DIVIDER BARS (not shown)			
FULL/HALF/THIRD SIZE (LONG BAR)	6	11317	
FULL/HALF/THIRD SIZE (SHORT BAR)	21	11318	
SHEET PAN	4	11320	
S-PAN DIVIDER (LONG)	3	11357	
PAN GRID	1	PN-2115	
SELF-SERVE PAN	1	1405	
SHEET PAN FILLER BAR: 3-3/4" (95mm)	1	11732	
30. ADJUSTABLE LEGS	4	LG-22686	
31. TERMINAL BLOCKS	1or2	BK-3597	
32. SNAP-IN RECEPTACLES, FOR SCALE, 120/240V	2	RP-3396	
RECEPTACLE FUSE, 15 AMP	1	FU-33351	
RECEPTACLE FUSEHOLDER, 15 AMP	1	FU-33352	
33. OUTLET HOUSING COVER, 120/240V	1	4980	
34. 6' PROBE PKG. OPTION (not shown) 120/240V	1	5296	
35. FRONT GLASS STRUTS	2	SU-2870	
36. FUSEHOLDER, 120/240V	2	FU-33041	
INCLUDES: FUSE, 15 AMP	2	FU-3775	
FUSEHOLDER MTG SCREWS	4	SC-2077	
37. OPTION (not shown) *NOT CSA APPROVED			
INDEPENDENT CIRCUIT CORDSET 120/240V	1	14221	
INDEPENDENT CIRCUIT CORDSET 230V	1	14222	

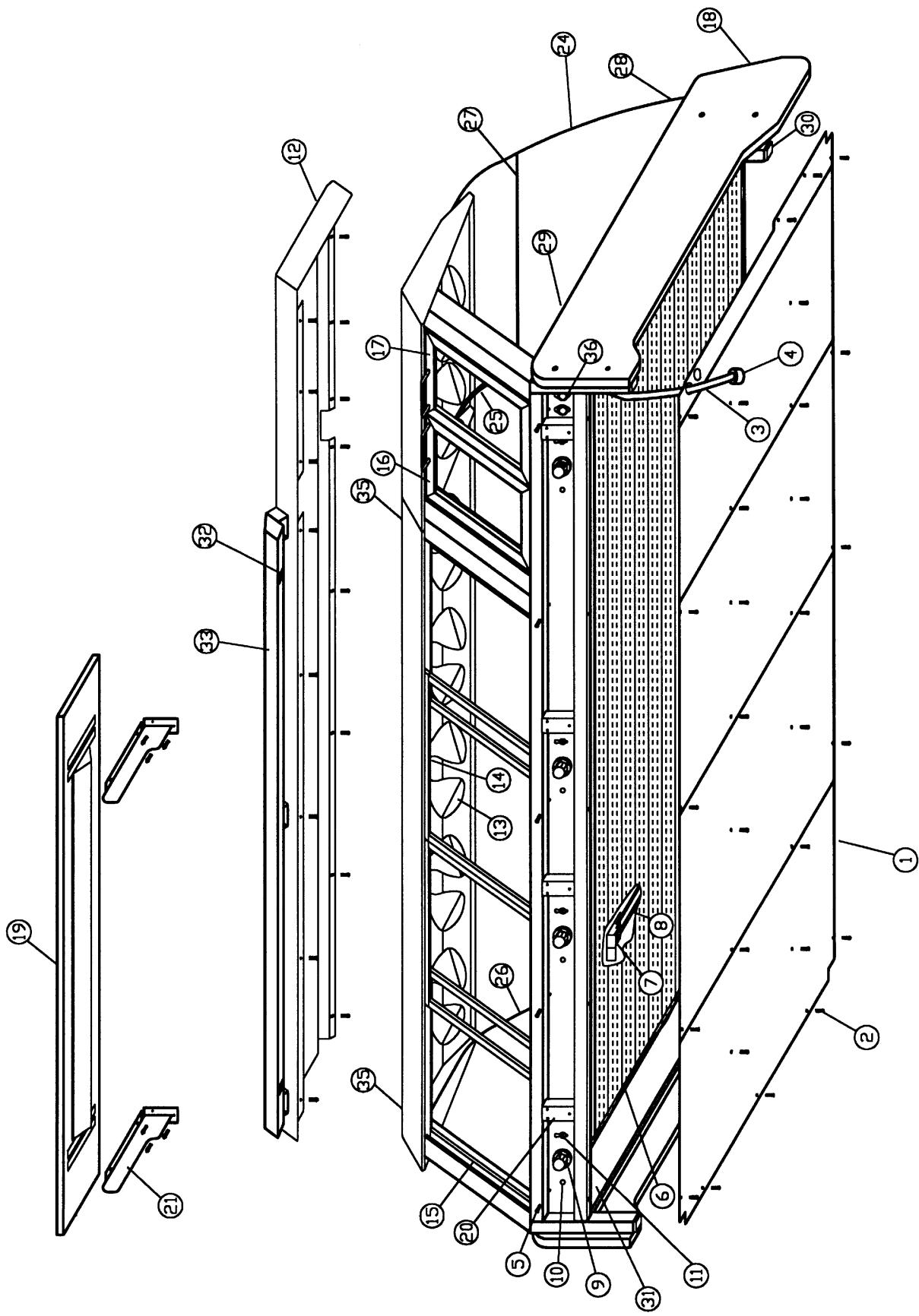
TYSYS-96/PL PASS-THRU LEFT

12-22-00	PART DESCRIPTION	QTY	A/S PT NO.
1. END PANEL BOTTOM	1	13028	
4' (1219mm) RIGHT-HAND BOTTOM PANEL	1	13029	
8' (2438mm) BOTTOM PANEL	1	13032	
6' (1829mm) BOTTOM PANEL	1	13031	
4' (1219mm) LEFT-HAND BOTTOM PANEL	1	13030	
2. 8-32x1/2" S/S TRUSS HEAD SCREWS	29	SC-2425	
8-32x1/4" S/S TRUSS HEAD SCREWS	2	SC-2459	
3. CONTROL PANEL MOUNTING SCREWS	5	SC-2459	
4. CONDUIT TUBING: .7" (213mm)	1	TU-3874	
5. INSULATION 1.5" x 25.5" x 120" (38mm x 648mm x 3048mm)	2.5	IN-22364	
6. CABLE CONNECTION HARDWARE			
7. HEATING CABLE: 66' (20117mm)		CB-3045	
HEATING CABLE: 205' (62484mm)		CB-3045	
8. THERMOSTAT	4	TT-3498	
THERMOSTAT KNOB	4	KN-3473	
9. INDICATOR LIGHT	4	LI-3025	
INDICATOR LIGHT, 230V	4	LI-3951	
INDICATOR LIGHT MOUNTING NUT	4	NU-3335	
10. BULB SWITCH	4	SW-3616	
11. TOP	1	4469	
TOP MOUNTING SCREWS	7	SC-2425	
TOP MOUNTING SCREWS	7	SC-2459	
12. BULB	14	LP-33592	
BULB, 230V	14	LP-3384	
13. BULB SOCKET	14	RP-3952	
BULB SOCKET, 230V	14	RP-3955	
14. CIRCUIT BOX	1	CI-3906	
INCLUDES: BREAKER, 15 AMP	2	CI-33071	
BREAKER, 20 AMP	3	CI-3907	
GROUND BAR KIT	1	CI-3878	
15. DOOR ASSEMBLY	1	DR-22481	
INCLUDES: LEFT HAND GLASS DOOR - IN	1	DR-22481A	
RIGHT HAND GLASS DOOR - IN	1	DR-22481B	
TOP TRACK	1	TK-23749	
BOTTOM TRACK, 6' (2438mm)	1	TK-24266	
CENTER GLASS - DOOR OUT	2	DR-22481E	
GUIDES #44049	16	DR-22480F	
DOOR BUMPER ASSEMBLY	2	DR-22480G	
16. SELF-SERVE DOOR, LEFT-HAND	1	4407	
HINGE, LEFT-HAND	2	HG-22167	
17. SELF-SERVE DOOR, RIGHT-HAND	1	4409	
HINGE, RIGHT-HAND	2	HG-22168	
HINGE BUSHING	4	BU-2722	
HINGE MOUNTING SCREWS	8	SC-2352	
18. END PANEL, WHITE	2	PE-22493	
19. CUTTING BOARD ASSEMBLY	1	4017	
20. CUTTING BOARD BRACKET (BASE)	2	12069	
CUTTING BOARD BRACKET MTG. SCREWS	6	SC-24520	
21. CUTTING BOARD BRACKET	2	BT-2342	
24. END GLASS	2	GL-22479	
END GLASS GASKET: 4' (1219mm)	1	GS-22547	
25. INNER END GLASS	1	GL-22497	
DIVIDER GLASS GASKET: 3' (914mm)	1	GS-22548	
26. FRONT GLASS: 6' (1829mm)	1	GL-22478	
27. SELF-SERVE GLASS: 2' (610mm)	1	GL-22474	
28. BASE BOTTOM	1	1420	
29. CUSTOMER HEAT GUARD: 2' (610mm)	1	11115	
30. PAN DIVIDER BARS (not shown)			
FULL/HALF/THIRD SIZE (LONG BAR)	6	11317	
FULL/HALF/THIRD SIZE (SHORT BAR)	21	11318	
SHEET PAN	4	11320	
S-PAN DIVIDER (LONG)	3	11357	
PAN GRID	1	PN-2115	
SELF-SERVE PAN	1	1405	
SHEET PAN FILLER BAR: 3-3/4" (95mm)	1	11732	
31. SNAP-IN RECEPTACLES, FOR SCALE, 120/240V	2	RP-3396	
RECEPTACLE FUSE, 15 AMP	1	FU-33351	
RECEPTACLE FUSEHOLDER, 15 AMP	1	FU-33352	
33. OUTLET HOUSING COVER, 120/240V	1	4980	
34. 6' PROBE PKG. OPTION (not shown) 120/240V	1	5296	
35. FRONT GLASS STRUTS	2	SU-2870	
36. FUSEHOLDER, 120/240V	2	FU-33041	
INCLUDES: FUSE, 15 AMP	2	FU-3775	
FUSEHOLDER MTG SCREWS	4	SC-2077	
37. OPTION (not shown) *NOT CSA APPROVED			
INDEPENDENT CIRCUIT CORDSET 120/240V	1	14221	
INDEPENDENT CIRCUIT CORDSET 230V	1	14222	

TY-96/PL
SERVICE VIEW
REV: 7/24/97

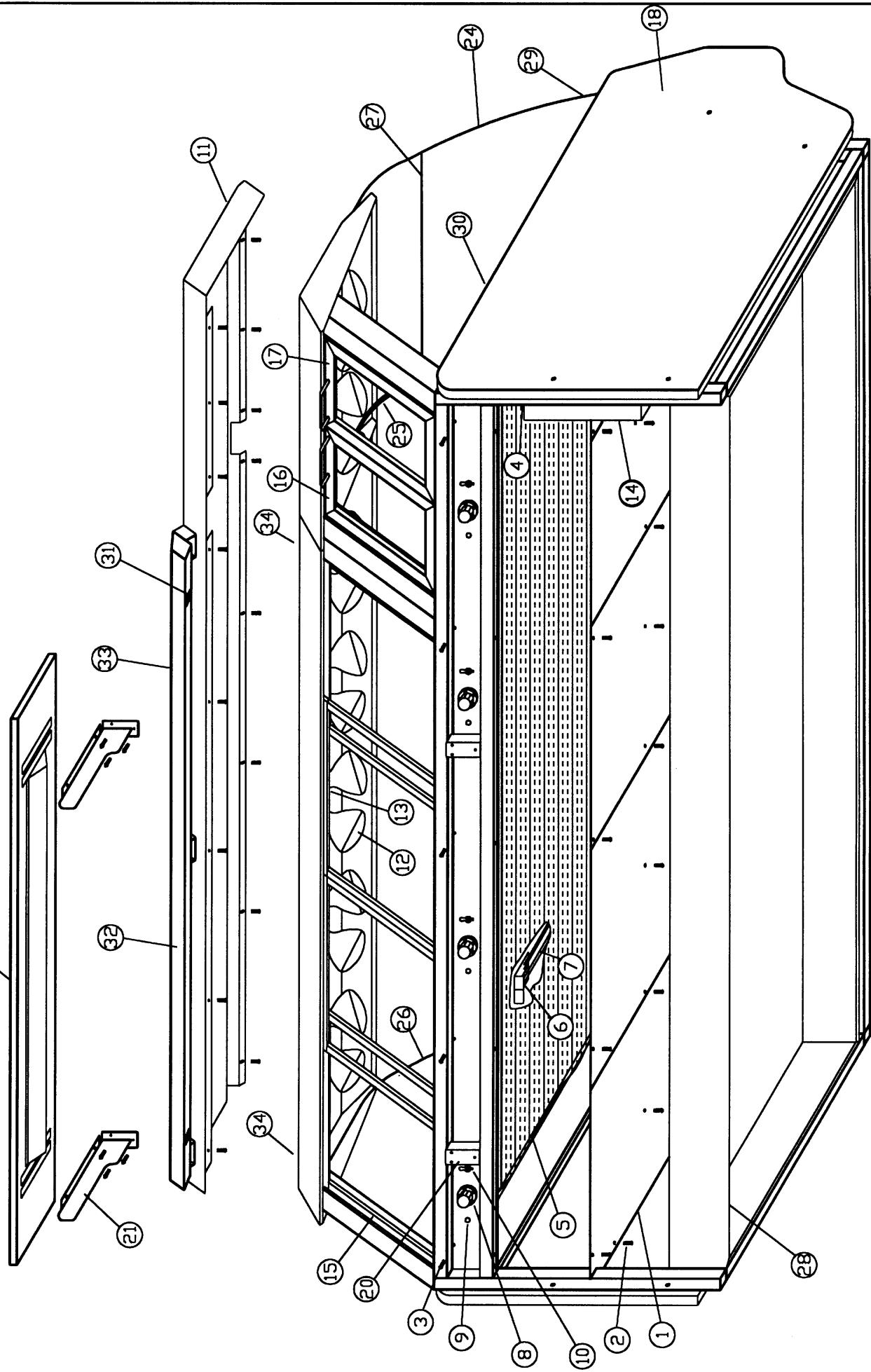
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TYSYSS-96/PL
SERVICE VIEW
REV: 7/24/97

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TY-96/PR PASS-THRU RIGHT

12-22-00

<u>PART DESCRIPTION</u>	<u>QTY</u>	<u>A/S PT NO.</u>
1. END PANEL BOTTOM	1	13028
END PANEL BOTTOM, 230V	1	13986
4' (1219mm) RIGHT-HAND BOTTOM PANEL	1	13029
8' (2438mm) BOTTOM PANEL	1	13032
6' (1829mm) BOTTOM PANEL	1	13031
4' (1219mm) LEFT-HAND BOTTOM PANEL	1	13030
2. 8-32x1/2" S/S TRUSS HEAD SCREWS	29	SC-2425
8-32x1/4" S/S TRUSS HEAD SCREWS	2	SC-2459
3. CORD, 120/240V	1	CD-3987
CORD, 230V, NO PLUG	1	CD-33489
4. PLUG, 120/240V	1	PG-3988
5. CONTROL PANEL MOUNTING SCREWS	5	SC-2459
6. INSULATION 1.5"x25.5"x120" (38mmx648mmx3048mm)	2.5	IN-22364
7. CABLE CONNECTION HARDWARE		
8. HEATING CABLE: 66' (20117mm)		CB-3045
HEATING CABLE: 205' (62484mm)		CB-3045
9. THERMOSTAT	4	TT-3498
THERMOSTAT KNOB	4	KN-3473
10. INDICATOR LIGHT	4	LI-3025
INDICATOR LIGHT, 230V	4	LI-3951
INDICATOR LIGHT MOUNTING NUT	4	NU-3335
11. BULB SWITCH	4	SW-3616
12. TOP	1	4456
TOP MOUNTING SCREWS	7	SC-2425
TOP MOUNTING SCREWS	7	SC-2459
13. BULB	14	LP-33592
BULB, 230V	14	LP-3384
14. BULB SOCKET	14	RP-3952
BULB SOCKET, 230V	14	RP-3955
15. DOOR ASSEMBLY	1	DR-22481
INCLUDES: LEFT HAND GLASS DOOR - IN	1	DR-22481A
RIGHT HAND GLASS DOOR - IN	1	DR-22481B
TOP TRACK	1	TK-23479
BOTTOM TRACK, 6' (2438mm)	1	TK-24266
CENTER GLASS - DOOR OUT	2	DR-22481E
GUIDES #44049	16	DR-22480F
DOOR BUMPER ASSEMBLY	2	DR-22480G
16. SELF-SERVE DOOR, LEFT-HAND	1	4407
HINGE, LEFT-HAND	2	HG-22167
17. SELF-SERVE DOOR, RIGHT-HAND	1	4409
HINGE, RIGHT-HAND	2	HG-22168
HINGE BUSHING	4	BU-2722
HINGE MOUNTING SCREWS	8	SC-2352
18. END PANEL, WHITE	2	PE-22585
19. CUTTING BOARD ASSEMBLY	1	4017
20. CUTTING BOARD BRACKET (BASE)	2	12069
CUTTING BOARD BRACKET MTG. SCREWS	6	SC-24520
21. CUTTING BOARD BRACKET	2	BT-2342
24. END GLASS	2	GL-22479
END GLASS GASKET: 4' (1219mm)	1	GS-22547
25. INNER END GLASS	1	GL-22497
DIVIDER GLASS GASKET: 3' (914mm)	1	GS-22548
26. FRONT GLASS: 6' (1829mm)	1	GL-22478
27. SELF-SERVE GLASS: 2' (610mm)	1	GL-22474
28. CUSTOMER HEAT GUARD: 2' (610mm)	1	11115
29. PAN DIVIDER BARS (not shown)		
FULL/HALF/THIRD SIZE (LONG BAR)	6	11317
FULL/HALF/THIRD SIZE (SHORT BAR)	21	11318
SHEET PAN	4	11320
S-PAN DIVIDER (LONG)	3	11357
PAN GRID	1	PN-2115
SELF-SERVE PAN	1	1405
SHEET PAN FILLER BAR: 3-3/4" (95mm)	1	11732
30. ADJUSTABLE LEGS	4	LG-22686
31. TERMINAL BLOCKS	2	BK-3597
32. SNAP-IN RECEPTACLES, 120/240V	2	RP-3396
RECEPTACLE FUSE, 15 AMP	1	FU-33351
RECEPTACLE FUSEHOLDER, 15 AMP	1	FU-33352
33. OUTLET HOUSING COVER, 120/240V	1	4980
34. 6' PROBE PACKAGE OPTION (not shown)	120/240V	5296
35. FRONT GLASS STRUTS	2	SU-2870
36. FUSEHOLDER, 120/240V	2	FU-33041
INCLUDES: FUSE, 15 AMP	2	FU-3775
FUSEHOLDER MTG SCREWS	4	SC-2077
37. OPTION (not shown) *NOT CSA APPROVED		
INDEPENDENT CIRCUIT CORDSET, 120/240V	1	14221
INDEPENDENT CIRCUIT CORDSET, 230V	1	14222

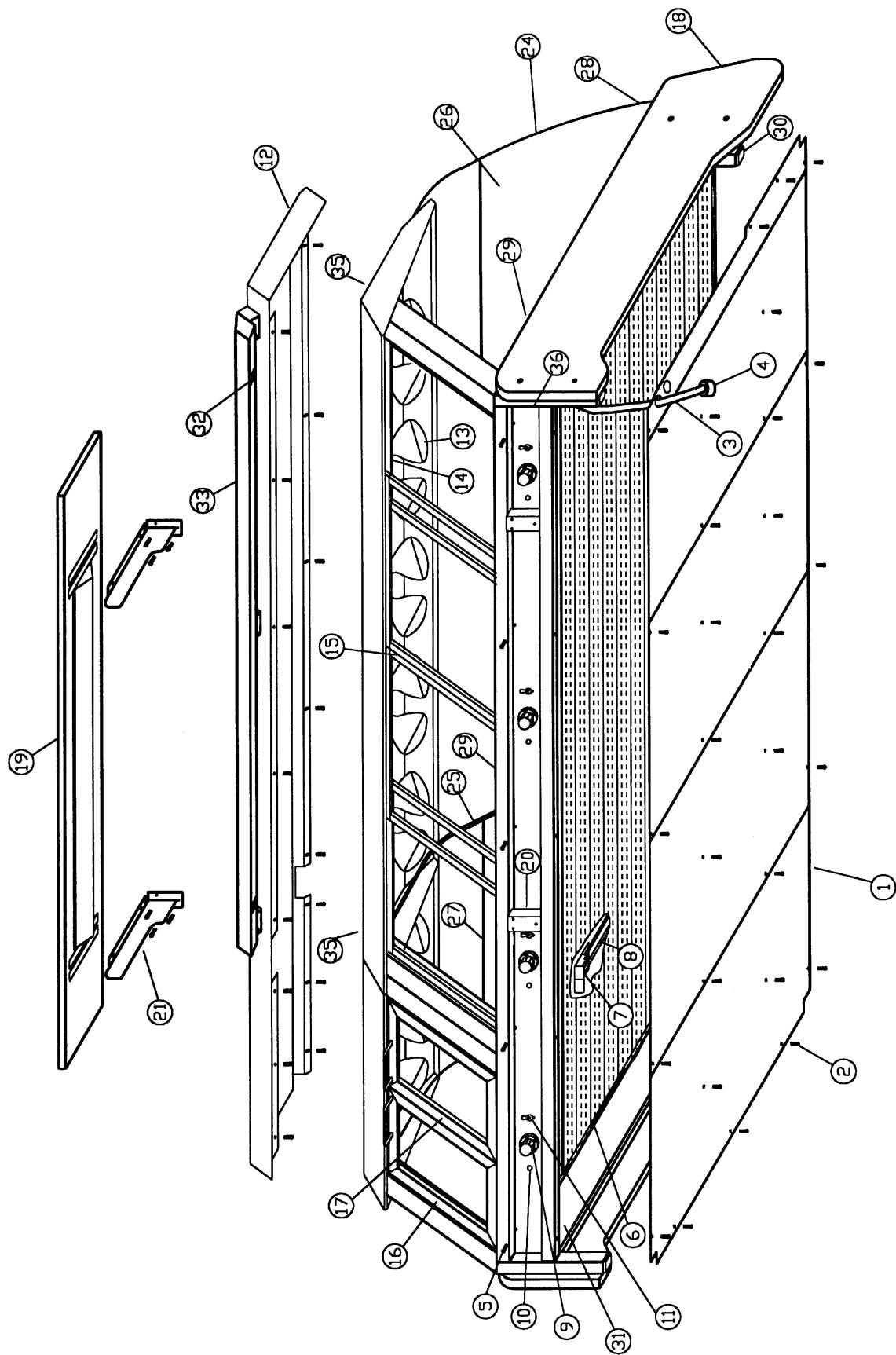
TYSYS-96/PR PASS-THRU RIGHT

12-22-00

<u>PART DESCRIPTION</u>	<u>QTY</u>	<u>A/S PT NO.</u>
1. END PANEL BOTTOM	1	13028
4' (1219mm) RIGHT-HAND BOTTOM PANEL	1	13029
8' (2438mm) BOTTOM PANEL	1	13031
6' (1829mm) BOTTOM PANEL	1	13030
4' (1219mm) LEFT-HAND BOTTOM PANEL	1	13030
2. 8-32x1/2" S/S TRUSS HEAD SCREWS	29	SC-2425
8-32x1/4" S/S TRUSS HEAD SCREWS	2	SC-2459
3. CONTROL PANEL MOUNTING SCREWS	5	SC-2459
4. CONDUIT TUBING: .7' (213mm)	1	TU-3874
5. INSULATION 1.5"x25.5"x120" (38mmx648mmx3048mm)	2.5	IN-22364
6. CABLE CONNECTION HARDWARE		
7. HEATING CABLE: 66' (20117mm)		CB-3045
HEATING CABLE: 205' (62484mm)		CB-3045
8. THERMOSTAT	4	TT-3498
THERMOSTAT KNOB	4	KN-3473
9. INDICATOR LIGHT	4	LI-3025
INDICATOR LIGHT, 230V	4	LI-3951
INDICATOR LIGHT MOUNTING NUT	4	NU-3335
10. BULB SWITCH	4	SW-3616
11. TOP	1	4456
TOP MOUNTING SCREWS	7	SC-2425
TOP MOUNTING SCREWS	7	SC-2459
12. BULB	14	LP-33592
BULB, 230V	14	LP-3384
13. BULB SOCKET	14	RP-3952
BULB SOCKET, 230V	14	RP-3955
14. CIRCUIT BOX	1	CI-3906
INCLUDES: BREAKER, 15 AMP	2	CI-33071
BREAKER, 20 AMP	3 or 4	CI-3907
GROUNDBAR KIT	1	CI-3878
15. DOOR ASSEMBLY	1	DR-22481
INCLUDES: LEFT HAND GLASS DOOR - IN	1	DR-22481A
RIGHT HAND GLASS DOOR - IN	1	DR-22481B
TOP TRACK	1	TK-23479
BOTTOM TRACK, 6' (2438mm)	1	TK-24266
CENTER GLASS - DOOR OUT	2	DR-22481E
GUIDES #44049	16	DR-22480F
16. SELF-SERVE DOOR, LEFT-HAND	1	4407
HINGE, LEFT-HAND	2	HG-22167
17. SELF-SERVE DOOR, RIGHT-HAND	1	4409
HINGE, RIGHT-HAND	2	HG-22168
HINGE BUSHING	4	BU-2722
HINGE MOUNTING SCREWS	8	SC-2352
18. END PANEL, WHITE	2	PE-22493
19. CUTTING BOARD ASSEMBLY	1	4017
20. CUTTING BOARD BRACKET (BASE)	2	12069
CUTTING BOARD BRACKET MTG. SCREWS	6	SC-24520
21. CUTTING BOARD BRACKET	2	BT-2342
24. END GLASS	2	GL-22479
END GLASS GASKET: 4' (1219mm)	1	GS-22547
25. INNER END GLASS	1	GL-22497
DIVIDER GLASS GASKET: 3' (914mm)	1	GS-22548
26. FRONT GLASS: 6' (1829mm)	1	GL-22478
27. SELF-SERVE GLASS: 2' (610mm)	1	GL-22474
28. BASE BOTTOM	1	1420
29. CUSTOMER HEAT GUARD: 2' (610mm)	1	11115
30. PAN DIVIDER BARS (not shown)		
FULL/HALF/THIRD SIZE (LONG BAR)	6	11317
FULL/HALF/THIRD SIZE (SHORT BAR)	21	11318
SHEET PAN	4	11320
S-PAN DIVIDER (LONG)	3	11357
PAN GRID	1	PN-2115
SELF-SERVE PAN	1	1405
SHEET PAN FILLER BAR: 3-3/4" (95mm)	1	11732
31. SNAP-IN RECEPTACLES, 120/240V	2	RP-3396
32. OUTLET HOUSING COVER, 120/240V	1	4980
33. RECEPTACLE FUSE, 15 AMP, 120/240V	1	FU-33351
RECEPTACLE FUSEHOLDER, 15 AMP	1	FU-33352
34. FRONT GLASS STRUTS	2	SU-2870
35. 6' PROBE PACKAGE OPTION (not shown)	120/240V	5296
36. OPTIONAL LOAD CENTER PKG. (not shown)	1	14220
INCLUDES: LOAD CENTER	1	CI-3877
GROUND BAR KIT	1	CI-3878
BREAKER, 15 AMP	1	CI-33071
CONNECTOR	1	CR-3953
NUT	1	NU-3954

TY-96/PR
SERVICE VIEW

5/15/98

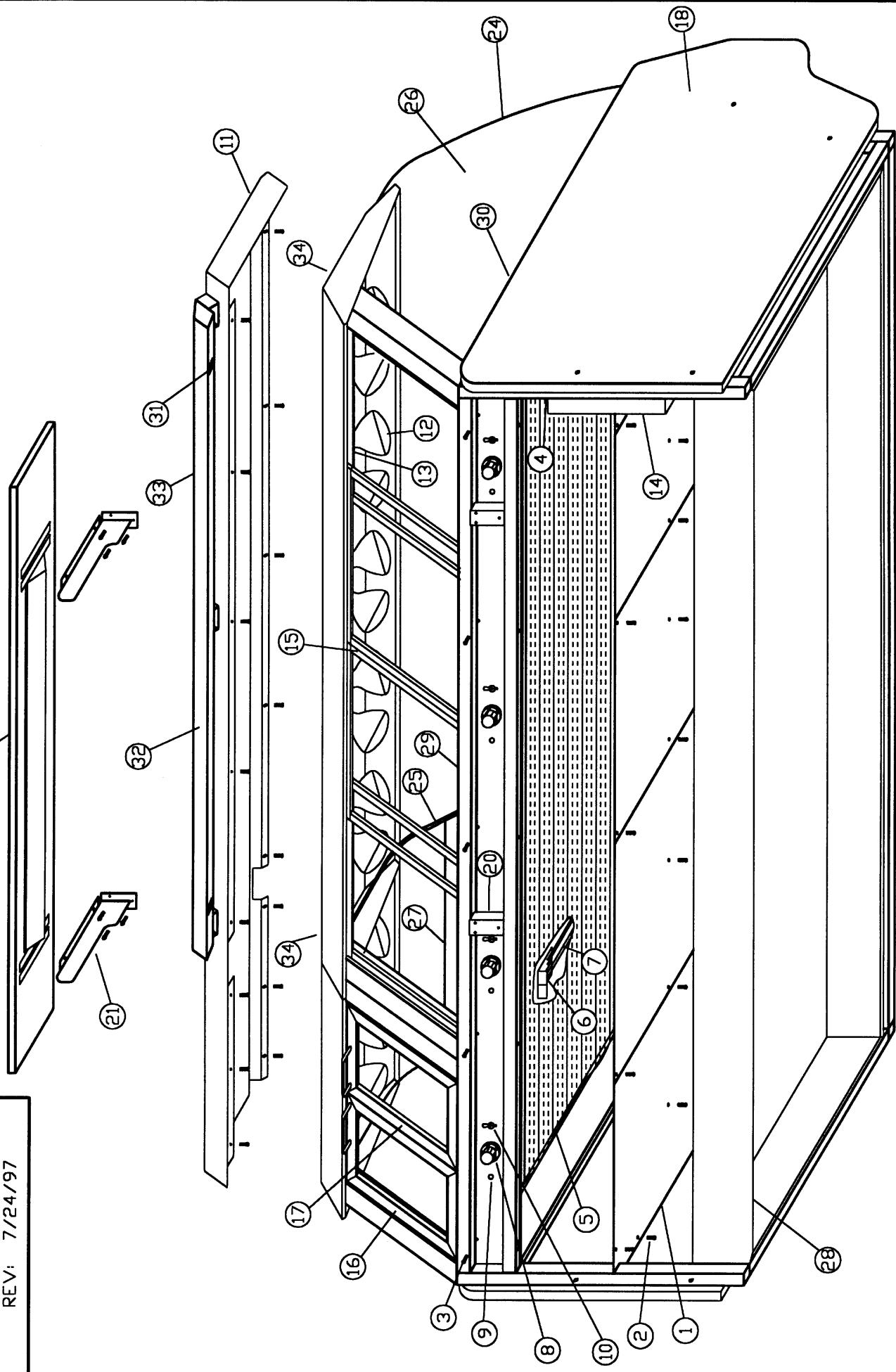


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TYSSYSS-96/PR
SERVICE VIEW
REV: 7/24/97

11-08-94

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TYSYS-96/4L PASS-THRU LEFT

8/27/02	PART DESCRIPTION	QTY	A/S PT NO.
1. END PANEL BOTTOM	1	13028	
4' (1219mm) RIGHT-HAND BOTTOM PANEL	1	13029	
8' (2438mm) BOTTOM PANEL	1	13032	
6' (1829mm) BOTTOM PANEL	1	13031	
4' (1219mm) LEFT-HAND BOTTOM PANEL	1	13030	
2. 8-32x1/2" S/S TRUSS HEAD SCREWS	29	SC-2425	
8-32x1/4" S/S TRUSS HEAD SCREWS	2	SC-2459	
3. CONTROL PANEL MOUNTING SCREWS	5	SC-2459	
4. CONDUIT TUBING: .7" (213mm)	1	TU-3874	
5. INSULATION 1.5"x25.5"x120" (38mmx648mmx3048mm)	2.5	IN-22364	
6. CABLE CONNECTION HARDWARE			
7. HEATING CABLE: 264' (80467mm)	1	CB-3045	
8. THERMOSTAT	3	TT-3498	
THERMOSTAT KNOB	3	KN-3473	
9. INDICATOR LIGHT	3	LI-3025	
INDICATOR LIGHT, 230V	3	LI-3951	
INDICATOR LIGHT MOUNTING NUT	3	NU-3335	
10. BULB SWITCH	3	SW-3616	
11. TOP	1	14025	
TOP MOUNTING SCREWS	7	SC-2425	
TOP MOUNTING SCREWS	7	SC-2459	
12. BULBS	14	LP-33592	
BULBS, 230V	14	LP-3384	
13. BULB SOCKET	14	RP-3952	
BULB SOCKET, 230V	14	RP-3955	
14. CIRCUIT BOX	1	CI-3906	
INCLUDES: BREAKER, 15 AMP	2	CI-33071	
BREAKER, 20 AMP	2	CI-3908	
GROUND BAR KIT	1	CI-3878	
15. DOOR ASSEMBLY	1	DR-22807	
16. END PANEL, WHITE	2	PE-22493	
17. CUTTING BOARD ASSEMBLY	2	4016	
18. CUTTING BOARD BRACKET (BASE)	4	12069	
CUTTING BOARD BRACKET MTG. SCREWS	12	SC-24520	
19. CUTTING BOARD BRACKET	4	BT-2342	
22. END GLASS	2	GL-22479	
END GLASS GASKET: 5' (1524mm)	1	GS-22547	
23. DIVIDER GLASS	1	GL-22719	
DIVIDER GLASS GASKET: 3' (914mm)	1	GS-22548	
24. FRONT DOUBLE CURVED GLASS	1	GL-22808	
25. SELF-SERVE GLASS	1	GL-22809	
26. BASE BOTTOM	1	1420	
27. CUSTOMER HEAT GUARD	1	11117	
28. PAN DIVIDER BARS (not shown)			
FULL/HALF/THIRD SIZE (LONG BAR)	2	11317	
FULL/HALF/THIRD SIZE (SHORT BAR)	9	11318	
SHEET PAN	2	11320	
PAN GRID	2	PN-22805	
SELF-SERVE PAN ASSEMBLY	1	14021	
29. SNAP-IN RECEPTACLES, 120/240V, FOR SCALE	2	RP-3396	
30. OUTLET HOUSING COVER, 120/240V	1	4951	
31. RECEPTACLE FUSE, 15 AMP, 120/240V	1	FU-33351	
RECEPTACLE FUSEHOLDER, 15 AMP, 120/240V	1	FU-33352	
32. FRONT GLASS STRUTS	2	SU-22702	
33. 4' PROBE PKG. OPTION (not shown) 120/240V	1	5295	
34. OPTIONAL LOAD CENTER PKG. (not shown)	1	14220	
INCLUDES: LOAD CENTER	1	CI-3877	
GROUND BAR KIT	1	CI-3878	
BREAKER, 15 AMP	1	CI-33071	
CONNECTOR	1	CR-3953	
NUT	1	NU-3954	

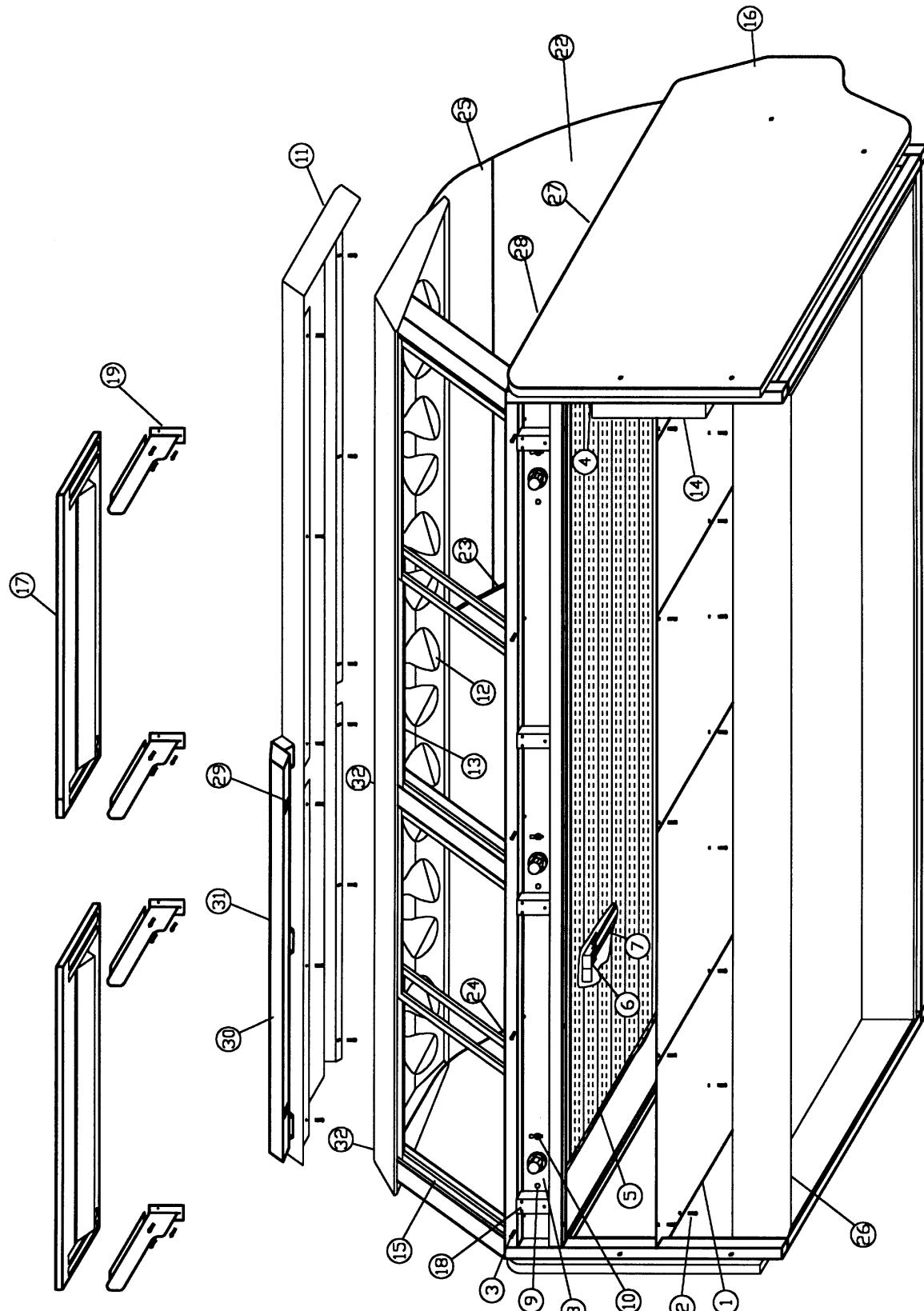
TYSYS-96/4R PASS-THRU RIGHT

8/27/02	PART DESCRIPTION	QTY	A/S PT NO.
1. END PANEL BOTTOM	1	13028	
4' (1219mm) RIGHT-HAND BOTTOM PANEL	1	13029	
8' (2438mm) BOTTOM PANEL	1	13032	
6' (1829mm) BOTTOM PANEL	1	13031	
4' (1219mm) LEFT-HAND BOTTOM PANEL	1	13030	
2. 8-32x1/2" S/S TRUSS HEAD SCREWS	29	SC-2425	
8-32x1/4" S/S TRUSS HEAD SCREWS	2	SC-2459	
3. CONTROL PANEL MOUNTING SCREWS	5	SC-2459	
4. CONDUIT TUBING: .7" (213mm)	1	TU-3874	
5. INSULATION 1.5"x25.5"x120" (38mmx648mmx3048mm)	2.5	IN-22364	
6. CABLE CONNECTION HARDWARE			
7. HEATING CABLE: 264' (80467mm)	1	CB-3045	
8. THERMOSTAT	3	TT-3498	
THERMOSTAT KNOB	3	KN-3473	
9. INDICATOR LIGHT	3	LI-3025	
INDICATOR LIGHT, 230V	3	LI-3951	
INDICATOR LIGHT MOUNTING NUT	3	NU-3335	
10. BULB SWITCH	3	SW-3616	
11. TOP	1	14025	
TOP MOUNTING SCREWS	7	SC-2425	
TOP MOUNTING SCREWS	7	SC-2459	
12. BULBS	14	LP-33592	
BULBS, 230V	14	LP-3384	
13. BULB SOCKET	14	RP-3952	
BULB SOCKET, 230V	14	RP-3955	
14. CIRCUIT BOX	1	CI-3906	
INCLUDES: BREAKER, 15 AMP	2	CI-33071	
BREAKER, 20 AMP	2	CI-3908	
GROUND BAR KIT	1	CI-3878	
15. DOOR ASSEMBLY	1	DR-22807	
16. END PANEL, WHITE	2	PE-22493	
17. CUTTING BOARD ASSEMBLY	2	4016	
18. CUTTING BOARD BRACKET (BASE)	4	12069	
CUTTING BOARD BRACKET MTG. SCREWS	12	SC-24520	
19. CUTTING BOARD BRACKET	4	BT-2342	
22. END GLASS	2	GL-22479	
END GLASS GASKET: 5' (1524mm)	1	GS-22547	
23. DIVIDER GLASS	1	GL-22719	
DIVIDER GLASS GASKET: 3' (914mm)	1	GS-22548	
24. FRONT DOUBLE CURVED GLASS	1	GL-22808	
25. SELF-SERVE GLASS	1	GL-22809	
26. BASE BOTTOM	1	1420	
27. CUSTOMER HEAT GUARD	1	11117	
28. PAN DIVIDER BARS (not shown)			
FULL/HALF/THIRD SIZE (LONG BAR)	2	11317	
FULL/HALF/THIRD SIZE (SHORT BAR)	9	11318	
SHEET PAN	2	11320	
PAN GRID	2	PN-22805	
SELF-SERVE PAN ASSEMBLY	1	14021	
29. SNAP-IN RECEPTACLES, 120/240V, FOR SCALE	2	RP-3396	
30. OUTLET HOUSING COVER, 120/240V	1	4951	
31. RECEPTACLE FUSE, 15 AMP, 120/240V	1	FU-33351	
RECEPTACLE FUSEHOLDER, 15 AMP, 120/240V	1	FU-33352	
32. FRONT GLASS STRUTS	2	SU-22702	
33. 4' PROBE PKG. OPTION (not shown) 120/240V	1	5295	
34. OPTIONAL LOAD CENTER PKG. (not shown)	1	14220	
INCLUDES: LOAD CENTER	1	CI-3877	
GROUND BAR KIT	1	CI-3878	
BREAKER, 15 AMP	1	CI-33071	
CONNECTOR	1	CR-3953	
NUT	1	NU-3954	

TYSYS-96/4L
SERVICE VIEW 1/16"=1'
REV: 7/24/97

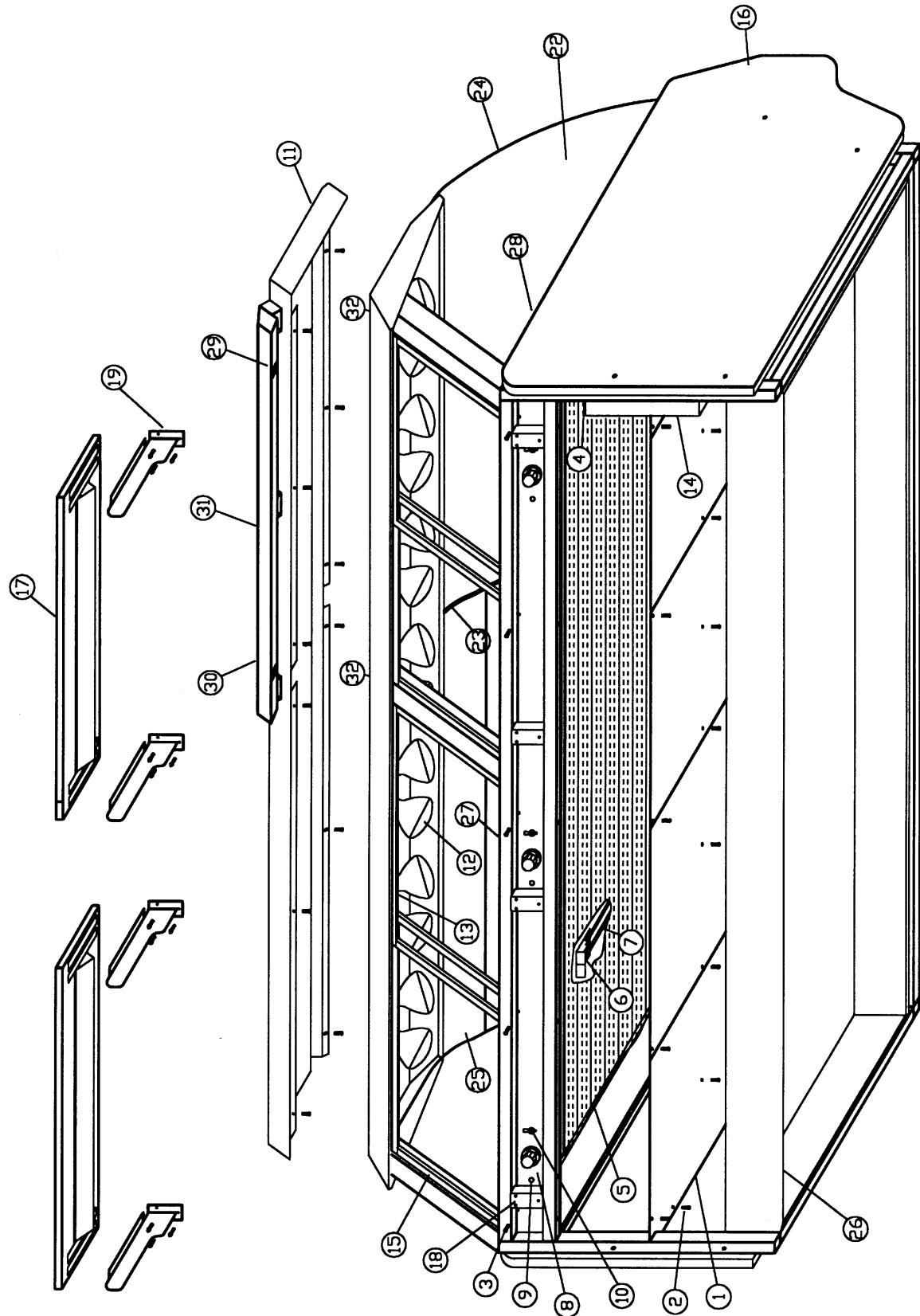
11/28/94 LRP

K:\SM\TYS96-4L.DWG



TYSS-96/4R
SERVICE VIEW 1/16"=1"
REV: 7/24/97

11/28/94 LRP



K:\SM\TYSS96-4R.DWG

TY-96/41L PASS-THRU LEFT

12-4-01	<u>PART DESCRIPTION</u>	QTY	A/S PT NO.
1. END PANEL BOTTOM	1	13028	
4' (1219mm) RIGHT-HAND BOTTOM PANEL	1	13029	
8' (2438mm) BOTTOM PANEL	1	13032	
6' (1829mm) BOTTOM PANEL	1	13031	
4' (1219mm) LEFT-HAND BOTTOM PANEL	1	13030	
2. 8-32x1/2" S/S TRUSS HEAD SCREWS	25	SC-2425	
8-32x1/4" S/S TRUSS HEAD SCREWS	29	SC-2459	
3. CONTROL PANEL MOUNTING SCREWS	5	SC-2459	
4. CORD	1	CD-3987	
PLUG	1	PG-3988	
5. INSULATION 1.5"x25.5"x120" (38mmx648mmx3048mm)	2.5	IN-22364	
6. CABLE CONNECTION HARDWARE			
7. HEATING CABLE: 264' (80467mm)		CB-3045	
8. THERMOSTAT	3	TT-3498	
THERMOSTAT KNOB	3	KN-3473	
9. INDICATOR LIGHT	3	LI-3025	
INDICATOR LIGHT MOUNTING NUT	3	NU-3335	
10. BULB SWITCH	3	SW-3616	
11. TOP	1	13461	
TOP MOUNTING SCREWS	7	SC-2425	
TOP MOUNTING SCREWS	7	SC-2459	
12. BULB	14	LP-33592	
13. BULB SOCKET	14	RP-3952	
14. DOOR ASSEMBLY	1	DR-23956	
15. END PANEL, WHITE	2	PE-22585	
16. CUTTING BOARD ASSEMBLY	2	4016	
17. CUTTING BOARD BRACKET (BASE)	2	12069	
CUTTING BOARD BRACKET MTG. SCREWS	6	SC-24520	
18. CUTTING BOARD BRACKET	2	BT-2342	
19. END GLASS, CLEAR	2	GL-22479	
END GLASS GASKET: 5' (1524mm) U-channel	1	GS-22547	
20. DIVIDER GLASS SPACER	1	GL-22719	
DIVIDER GLASS GASKET: 3' (914mm)	1	GS-22548	
21. FRONT DOUBLE CURVED GLASS	1	GL-23958	
22. SELF-SERVE GLASS	1	GL-23959	
23. LEGS	4	LG-22686	
24. CUSTOMER HEAT GUARD	1	11118	
25. PAN DIVIDER BARS			
FULL/HALF/THIRD SIZE (LONG BAR)	3	11317	
FULL/HALF/THIRD SIZE (SHORT BAR)	12	11318	
SHEET PAN	2	11320	
PAN GRID	2	PN-22048	
SELF-SERVE PAN ASSEMBLY	1	14481	
26. SNAP-IN RECEPTACLES, FOR SCALE, 120/240V	2	RP-3396	
27. RECEPTACLE FUSE, 15 AMP, 120/240V	1	FU-33351	
RECEPTACLE FUSEHOLDER, 15 AMP	1	FU-33352	
FUSE, INLINE, 15A	2	FU-3775	
28. OUTLET HOUSING COVER	1	4951	
29. FRONT GLASS STRUTS, 195#	2	SU-22704	
30. 4' PROBE PACKAGE OPTION	1	5295	
31. OPTIONAL LOAD CTR. PKG. 120/240V	1	14220	
INCLUDES: LOAD CENTER	1	CI-3877	
GROUND BAR KIT	1	CI-3878	
BREAKER, 15 AMP	1	CI-33071	
CONNECTOR	1	CR-3953	
NUT	1	NU-3954	
32. TERMINAL BLOCKS	2	BK-3597	
33. OPTION *NOT CSA APPROVED			
INDEPENDENT CIRCUIT CORDSET 120/240V	1	14221	
INDEPENDENT CIRCUIT CORDSET 230V	1	14222	

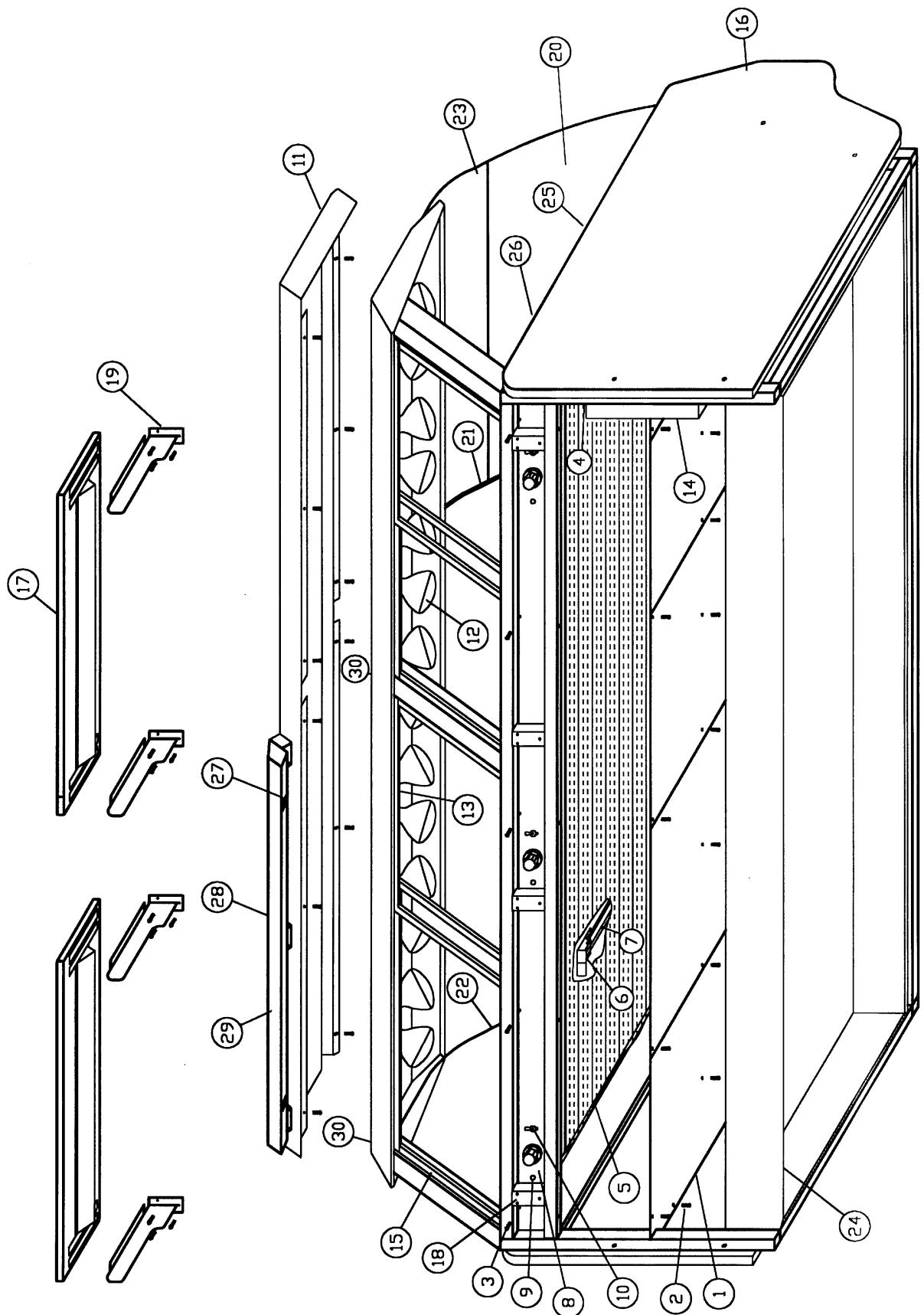
TY-96/41R PASS-THRU RIGHT

12-4-01	<u>PART DESCRIPTION</u>	QTY	A/S PT NO.
1. END PANEL BOTTOM	1	13028	
4' (1219mm) RIGHT-HAND BOTTOM PANEL	1	13029	
8' (2438mm) BOTTOM PANEL	1	13032	
6' (1829mm) BOTTOM PANEL	1	13031	
4' (1219mm) LEFT-HAND BOTTOM PANEL	1	13030	
2. 8-32x1/2" S/S TRUSS HEAD SCREWS	25	SC-2425	
8-32x1/4" S/S TRUSS HEAD SCREWS	29	SC-2459	
3. CONTROL PANEL MOUNTING SCREWS	5	SC-2459	
4. CORD	1	CD-3987	
PLUG	1	PG-3988	
5. INSULATION 1.5"x25.5"x120" (38mmx648mmx3048mm)	2.5	IN-22364	
6. CABLE CONNECTION HARDWARE			
7. HEATING CABLE: 264' (80467mm)		CB-3045	
8. THERMOSTAT	3	TT-3498	
THERMOSTAT KNOB	3	KN-3473	
9. INDICATOR LIGHT	3	LI-3025	
INDICATOR LIGHT MOUNTING NUT	3	NU-3335	
10. BULB SWITCH	3	SW-3616	
11. TOP	1	13461	
TOP MOUNTING SCREWS	7	SC-2425	
TOP MOUNTING SCREWS	7	SC-2459	
12. BULB	14	LP-33592	
13. BULB SOCKET	14	RP-3952	
14. DOOR ASSEMBLY	1	DR-23956	
15. END PANEL, WHITE	2	PE-22585	
16. CUTTING BOARD ASSEMBLY	2	4016	
17. CUTTING BOARD BRACKET (BASE)	2	12069	
CUTTING BOARD BRACKET MTG. SCREWS	6	SC-24520	
18. CUTTING BOARD BRACKET	2	BT-2342	
19. END GLASS, CLEAR	2	GL-22479	
END GLASS GASKET: 5' (1524mm) U-channel	1	GS-22547	
20. DIVIDER GLASS SPACER	1	GL-22719	
DIVIDER GLASS GASKET: 3' (914mm)	1	GS-22548	
21. FRONT DOUBLE CURVED GLASS	1	GL-23958	
22. SELF-SERVE GLASS	1	GL-23959	
23. LEGS	4	LG-22686	
24. CUSTOMER HEAT GUARD	1	11118	
25. PAN DIVIDER BARS			
FULL/HALF/THIRD SIZE (LONG BAR)	3	11317	
FULL/HALF/THIRD SIZE (SHORT BAR)	12	11318	
SHEET PAN	2	11320	
PAN GRID	2	PN-22048	
SELF-SERVE PAN ASSEMBLY	1	14481	
26. SNAP-IN RECEPTACLES	2	RP-3396	
27. RECEPTACLE FUSE, 15 AMP, 120/240V	1	FU-33351	
RECEPTACLE FUSEHOLDER, 15 AMP	1	FU-33352	
FUSE, INLINE, 15A	2	FU-3775	
28. OUTLET HOUSING COVER	1	4951	
29. FRONT GLASS STRUTS, 195#	2	SU-22704	
30. 4' PROBE PACKAGE OPTION	1	5295	
31. OPTIONAL LOAD CTR. PKG. 120/240V	1	14220	
INCLUDES: LOAD CENTER	1	CI-3877	
GROUND BAR KIT	1	CI-3878	
BREAKER, 15 AMP	1	CI-33071	
CONNECTOR	1	CR-3953	
NUT	1	NU-3954	
32. TERMINAL BLOCKS	2	BK-3597	
33. OPTION *NOT CSA APPROVED			
INDEPENDENT CIRCUIT CORDSET 120/240V	1	14221	
INDEPENDENT CIRCUIT CORDSET 230V	1	14222	

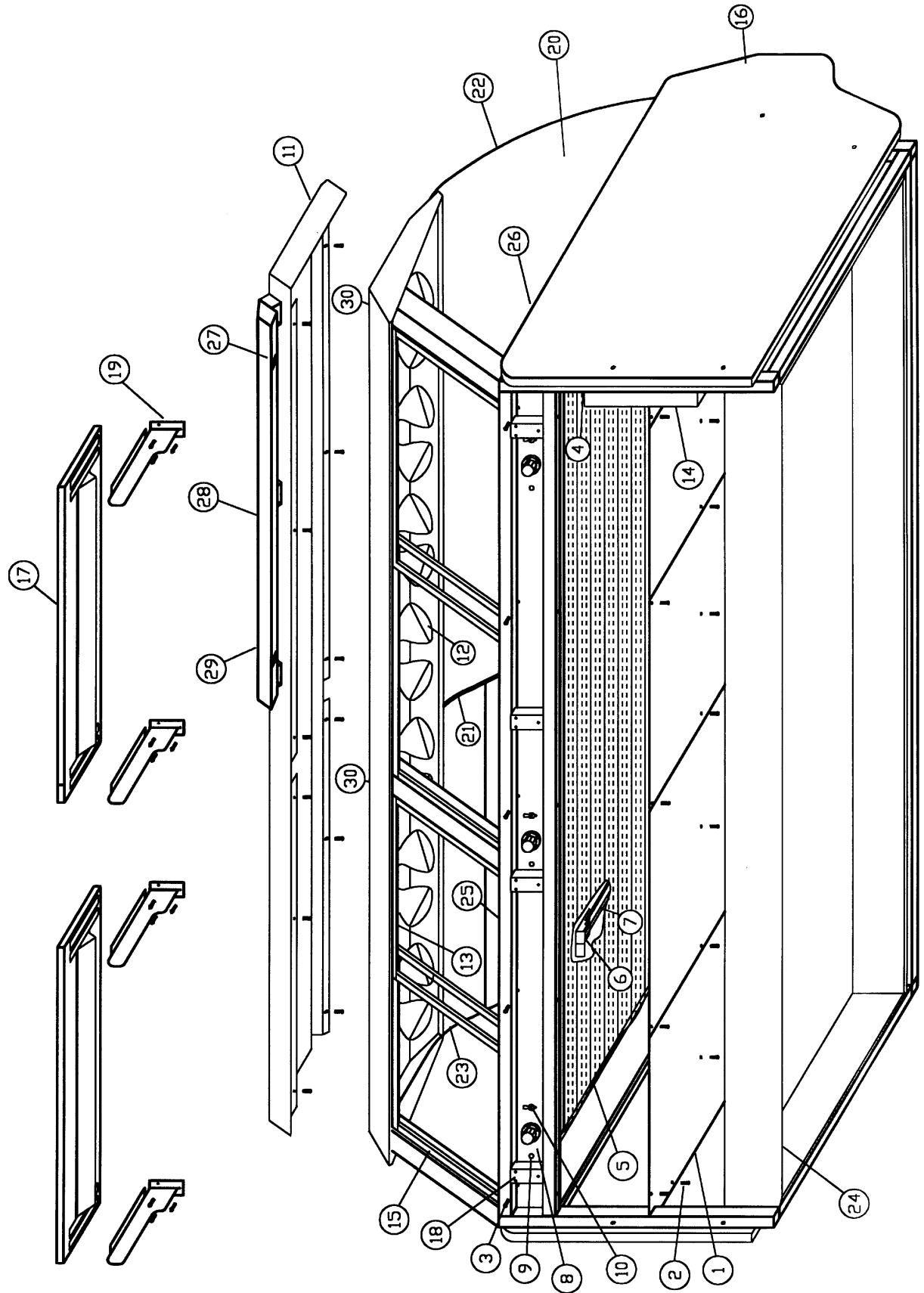
NO SERVICE VIEW
#856-7 Operation & Care Manual • 20
NO SERVICE VIEW

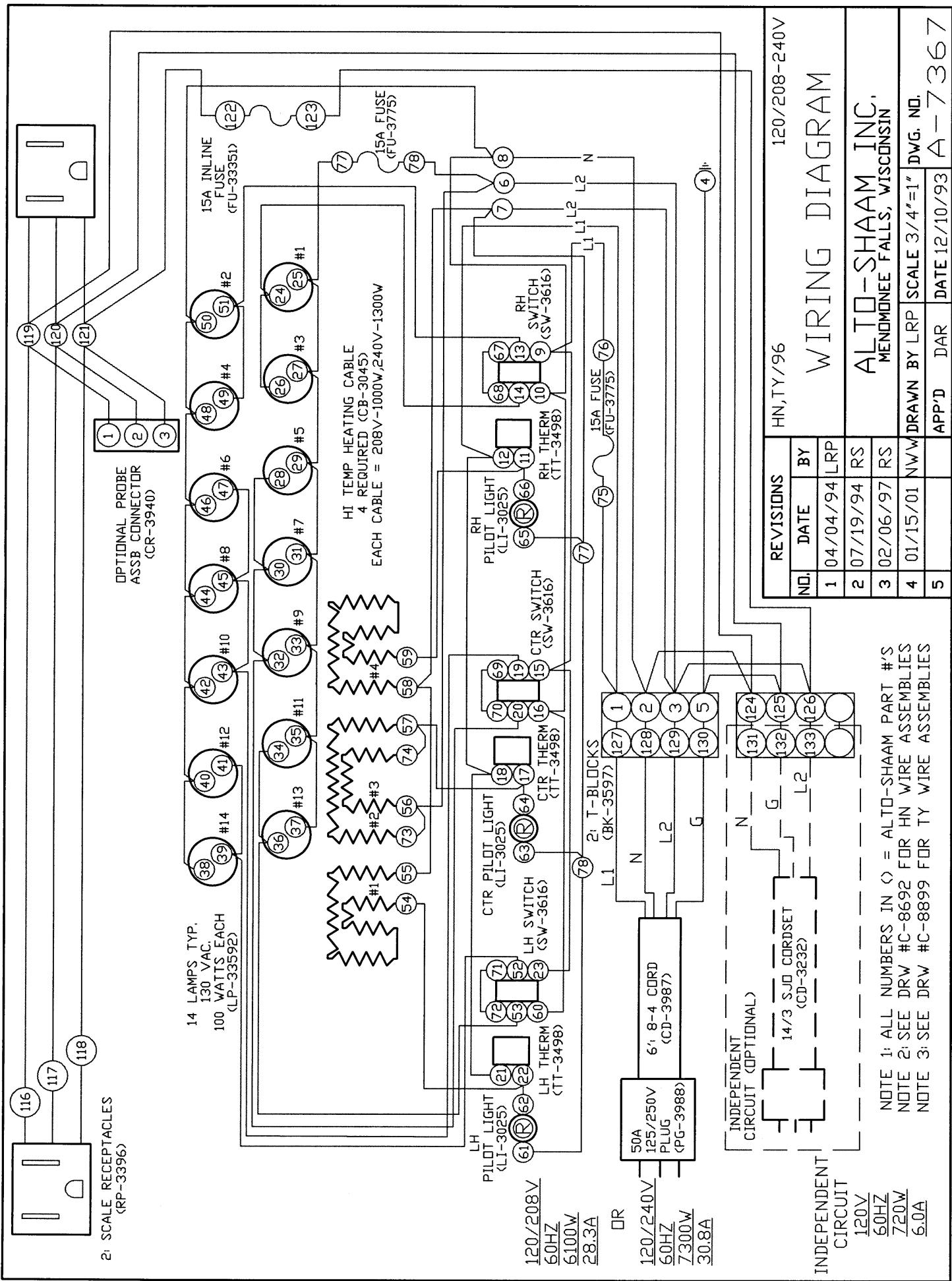
TYSYS-96/41L PASS-THRU LEFT				TYSYS-96/41R PASS-THRU RIGHT			
8-27-02	PART DESCRIPTION	QTY	A/S PT NO.	8-27-02	PART DESCRIPTION	QTY	A/S PT NO.
1.	END PANEL BOTTOM 4' (1219mm) RIGHT-HAND BOTTOM PANEL 8' (2438mm) BOTTOM PANEL 6' (1829mm) BOTTOM PANEL 4' (1219mm) LEFT-HAND BOTTOM PANEL	1	13028 13029 13032 13031 13030	1.	END PANEL BOTTOM 4' (1219mm) RIGHT-HAND BOTTOM PANEL 8' (2438mm) BOTTOM PANEL 6' (1829mm) BOTTOM PANEL 4' (1219mm) LEFT-HAND BOTTOM PANEL	1	13028 13029 13032 13031 13030
2.	8-32x1/2" S/S TRUSS HEAD SCREWS 8-32x1/4" S/S TRUSS HEAD SCREWS	29	SC-2425 SC-2459	2.	8-32x1/2" S/S TRUSS HEAD SCREWS 8-32x1/4" S/S TRUSS HEAD SCREWS	29	SC-2425 SC-2459
3.	CONTROL PANEL MOUNTING SCREWS	5	SC-2459	3.	CONTROL PANEL MOUNTING SCREWS	5	SC-2459
4.	CONDUIT TUBING: .7" (213mm)	1	TU-3874	4.	CONDUIT TUBING: .7" (213mm)	1	TU-3874
5.	INSULATION 1.5"x25.5"x120" (38mmx648mmx3048mm) 2.5	IN-22364		5.	INSULATION 1.5"x25.5"x120" (38mmx648mmx3048mm) 2.5	IN-22364	
6.	CABLE CONNECTION HARDWARE			6.	CABLE CONNECTION HARDWARE		
7.	HEATING CABLE: 264' (80467mm)		CB-3045	7.	HEATING CABLE: 264' (80467mm)		CB-3045
8.	THERMOSTAT	3	TT-3498	8.	THERMOSTAT	3	TT-3498
	THERMOSTAT KNOB		KN-3473		THERMOSTAT KNOB	3	KN-3473
9.	INDICATOR LIGHT INDICATOR LIGHT, 230V INDICATOR LIGHT MOUNTING NUT	3	LI-3025 LI-3951 NU-3335	9.	INDICATOR LIGHT INDICATOR LIGHT, 230V INDICATOR LIGHT MOUNTING NUT	3	LI-3025 LI-3951 NU-3335
10.	BULB SWITCH	3	SW-3616	10.	BULB SWITCH	3	SW-3616
11.	TOP TOP MOUNTING SCREWS TOP MOUNTING SCREWS	1	13461 7 SC-2425 7 SC-2459	11.	TOP TOP MOUNTING SCREWS TOP MOUNTING SCREWS	1	13461 7 SC-2425 7 SC-2459
12.	BULB BULB, 230V	14	LP-33592 LP-3384	12.	BULB BULB, 230V	14	LP-33592 LP-3384
13.	BULB SOCKET BULB SOCKET, 230V	14	RP-3952 RP-3955	13.	BULB SOCKET BULB SOCKET, 230V	14	RP-3952 RP-3955
14.	CIRCUIT BOX BREAKER, 15 AMP BREAKER, 20 AMP GROUND BAR KIT	1	CI-3906 CI-33071 CI-3908 CI-3878	14.	CIRCUIT BOX, ALL BREAKER, 15 AMP BREAKER, 20 AMP GROUND BAR KIT	1	CI-3906 CI-33071 CI-3908 CI-3878
15.	DOOR ASSEMBLY	1	DR-23956	15.	DOOR ASSEMBLY	1	DR-23945
16.	END PANEL, WHITE	2	PE-22493	16.	END PANEL, WHITE	2	PE-22493
17.	CUTTING BOARD ASSEMBLY	2	4016	17.	CUTTING BOARD ASSEMBLY	2	4016
18.	CUTTING BOARD BRACKET (BASE) CUTTING BOARD BRACKET MTG. SCREWS	4	12069 12 SC-24520	18.	CUTTING BOARD BRACKET (BASE) CUTTING BOARD BRACKET MTG. SCREWS	4	12069 12 SC-24520
19.	CUTTING BOARD BRACKET	4	BT-2342	19.	CUTTING BOARD BRACKET	4	BT-2342
20.	END GLASS, CLEAR END GLASS GASKET: 5' (1524mm)	2	GL-22479 GS-22547	20.	END GLASS END GLASS GASKET: 5' (1524mm)	2	GL-22479 GS-22547
21.	DIVIDER GLASS DIVIDER GLASS GASKET: 3' (914mm)	1	GL-22719 GS-22548	21.	DIVIDER GLASS DIVIDER GLASS GASKET: 3' (914mm)	1	GL-22719 GS-22548
22.	FRONT, FULL SERVE GLASS	1	GL-23958	22.	FRONT, FULL SERVICE GLASS	1	GL-23958
23.	FRONT, SELF-SERVE GLASS	1	GL-23959	23.	FRONT, SELF-SERVE GLASS	1	GL-23959
24.	BASE BOTTOM	1	1420	24.	BASE BOTTOM	1	1420
25.	CUSTOMER HEAT GUARD	1	11118	25.	CUSTOMER HEAT GUARD	1	11118
26.	PAN DIVIDER BARS (not shown) FULL/HALF/THIRD SIZE (LONG BAR) FULL/HALF/THIRD SIZE (SHORT BAR)	3	11317 11318	26.	PAN DIVIDER BARS (not shown) FULL/HALF/THIRD SIZE (LONG BAR) FULL/HALF/THIRD SIZE (SHORT BAR)	3	11317 11318
	SHEET PAN	2	11320		SHEET PAN	2	11320
	PAN GRID	2	PN-22048		PAN GRID	2	PN-22048
	SELF-SERVE PAN ASSEMBLY	1	14481		SELF-SERVE PAN ASSEMBLY	1	14481
27.	SNAP-IN RECEPTACLES, 120/240V, FOR SCALE	2	RP-3396	27.	SNAP-IN RECEPTACLES, 120/240V, FOR SCALE	2	RP-3396
28.	RECEPTACLE FUSE, 15 AMP, 120/240V RECEPTACLE FUSEHOLDER, 15 AMP, 120/240V	1	FU-33351 FU-33352	28.	RECEPTACLE FUSE, 15 AMP, 120/240V RECEPTACLE FUSEHOLDER, 15 AMP, 120/240V	1	FU-33351 FU-33352
29.	OUTLET HOUSING COVER, 120/240V	1	4951	29.	OUTLET HOUSING COVER, 120/240V	1	4951
30.	FRONT GLASS STRUTS	2	SU-22704	30.	FRONT GLASS STRUTS	2	SU-22704
31.	4' PROBE PACKAGE OPTION (not shown)	1	5295	31.	4' PROBE PACKAGE OPTION (not shown)	1	5295
32.	OPTIONAL LOAD CTR. PKG. (not shown) 120/240V INCLUDES: LOAD CENTER GROUND BAR KIT BREAKER, 15 AMP CONNECTOR NUT	1	14220 CI-3877 CI-3878 CI-33071 CR-3953 NU-3954	32.	OPTIONAL LOAD CTR. PKG. (not shown) 120/240V INCLUDES: LOAD CENTER GROUND BAR KIT BREAKER, 15 AMP CONNECTOR NUT	1	14220 CI-3877 CI-3878 CI-33071 CR-3953 NU-3954

TYSYSS-96/41L
SERVICE VIEW 1/16"=1'
1/23/98 RS



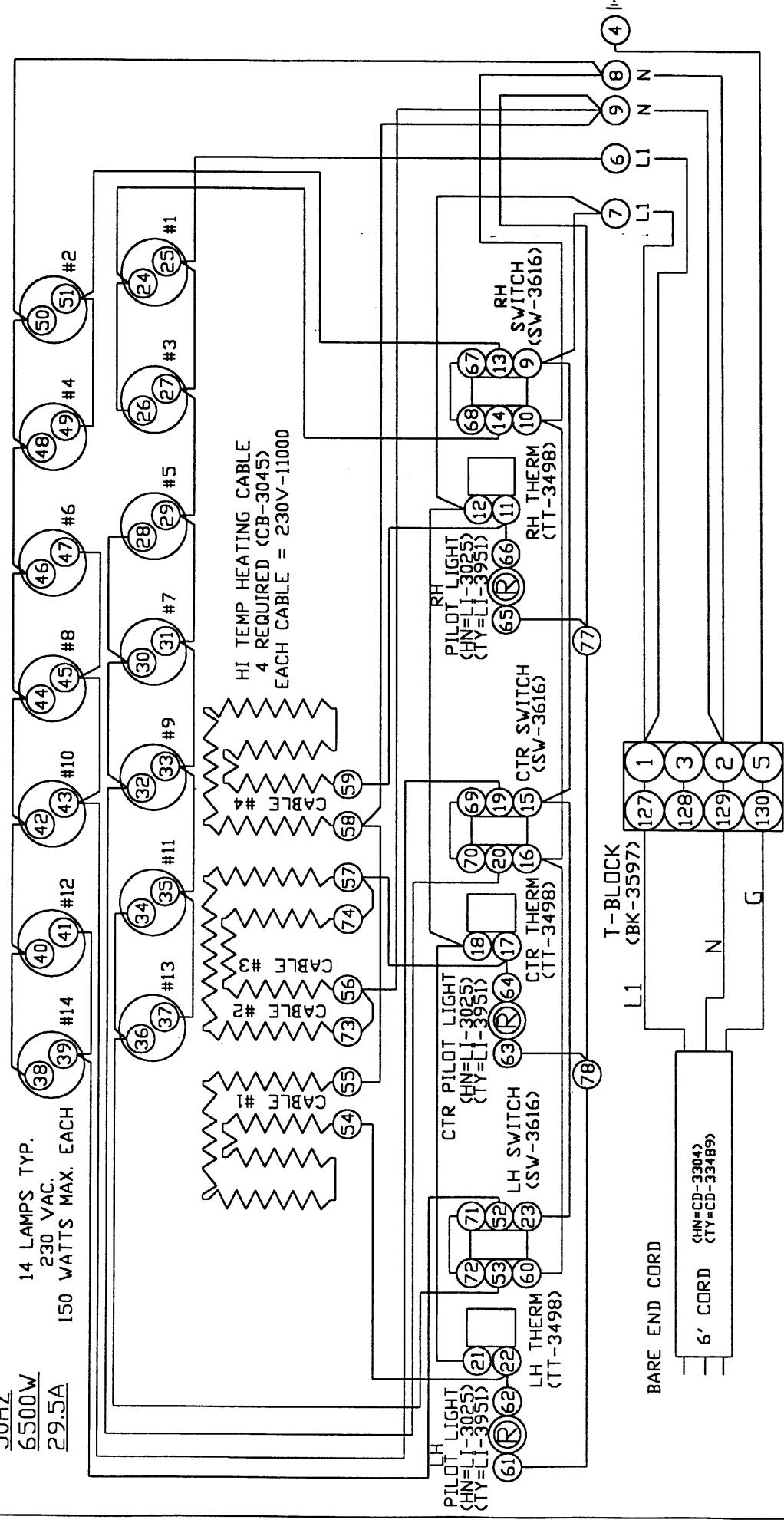
TYSSY5-96/41R
SERVICE VIEW 1/16"=1'
1/23/98 RS





230V
50HZ
6500W
29.5A

14 LAMPS TYP.
230 VAC.
150 WATTS MAX. EACH

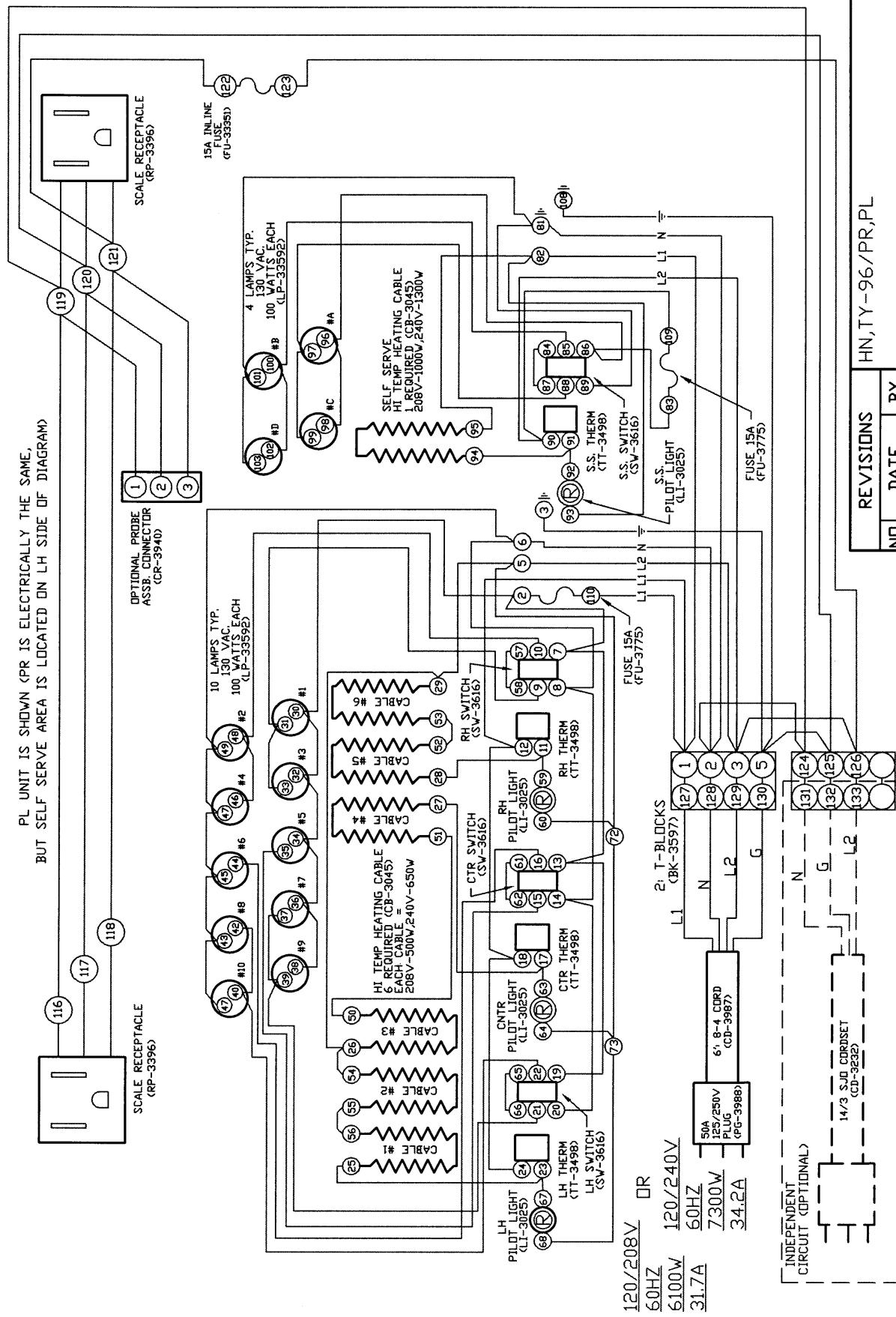


REVISIONS		HN, TY-96	
NO.	DATE	BY	WIRING DIAGRAM
1	02/06/97	RS	ALT - SHAAM INC. MENOMONEE FALLS, WISCONSIN
2	06/18/98	RS	
3	03/02/99	JMM	DRAWN BY RS SCAL 3'4'=1'
4		APP'D MSM	DWG. NO. A-7400
5			DATE 11-22-94

NOTE 1: ALL NUMBERS IN O = ALTO-SHAAM
PART NUMBERS
NOTE 2: SEE DRW #C-8723 FOR
WIRE ASSEMBLIES

230V

PL UNIT IS SHOWN (PR IS ELECTRICALLY THE SAME,
BUT SELF SERVE AREA IS LOCATED ON LH SIDE OF DIAGRAM)



120/240V
HN,TY-96/PR,PL

120/240V
WIRING DIAGRAM

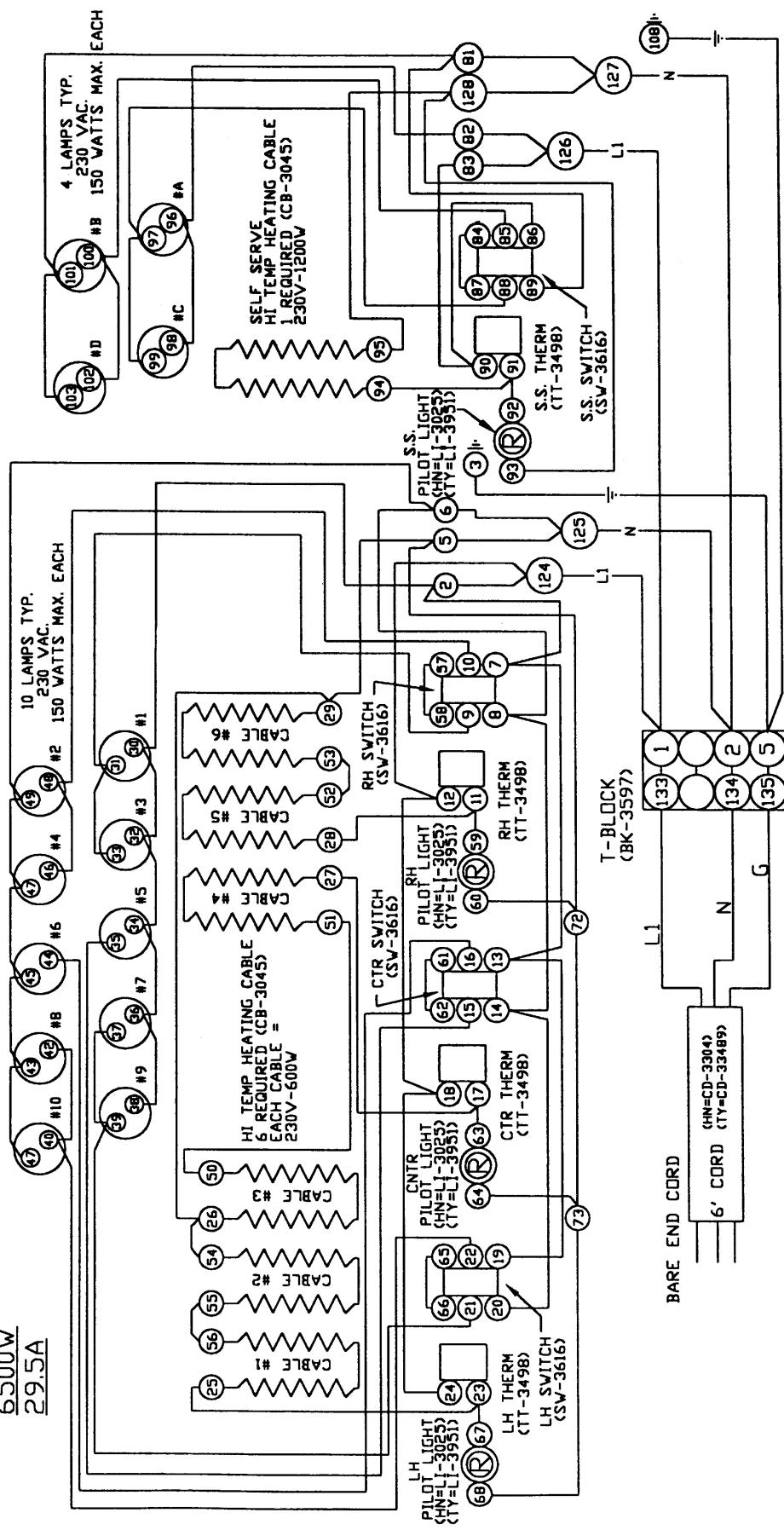
ALT - SHAAM INC.,
MENOMONEE FALLS, WISCONSIN

NOTE #1: ALL NUMBERS IN () = ALTO-SHAAM PART NO'S
NOTE #2: SEE DRW. #C-8724 FOR WIRE ASSEMBLIES

INDEPENDENT
CIRCUIT (OPTIONAL)
120V
60Hz
720W
6.0A

REVISIONS		
NO.	DATE	BY
1	02/15/95	RS
2	02/06/97	RS
3	01/15/01	WW
4		DRAWN BY RS SCALE NONE DWG. NO.
5		APP'D DAR DATE 11-28-94 A-7401

230V
50HZ
6500W
29.5A

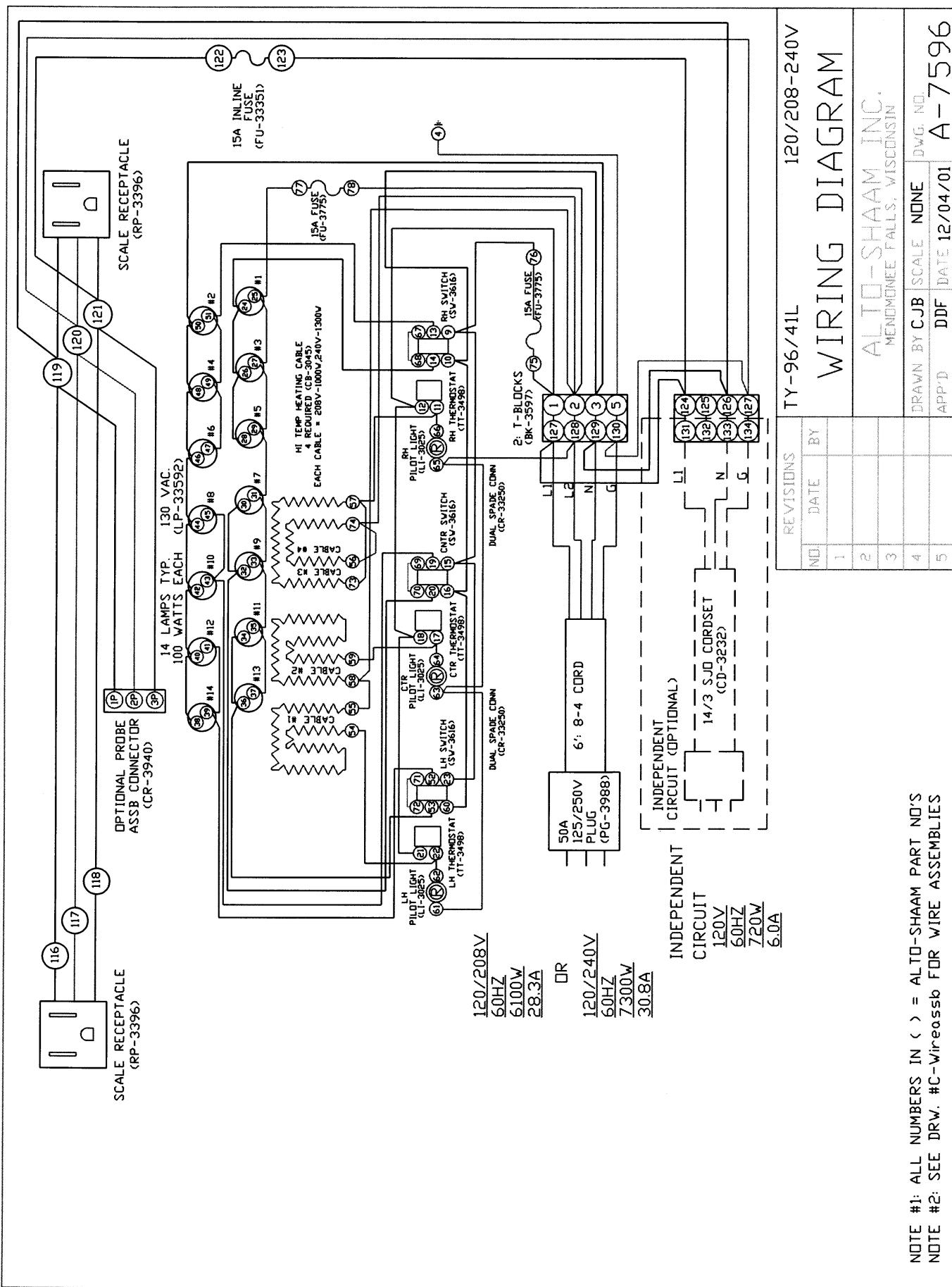


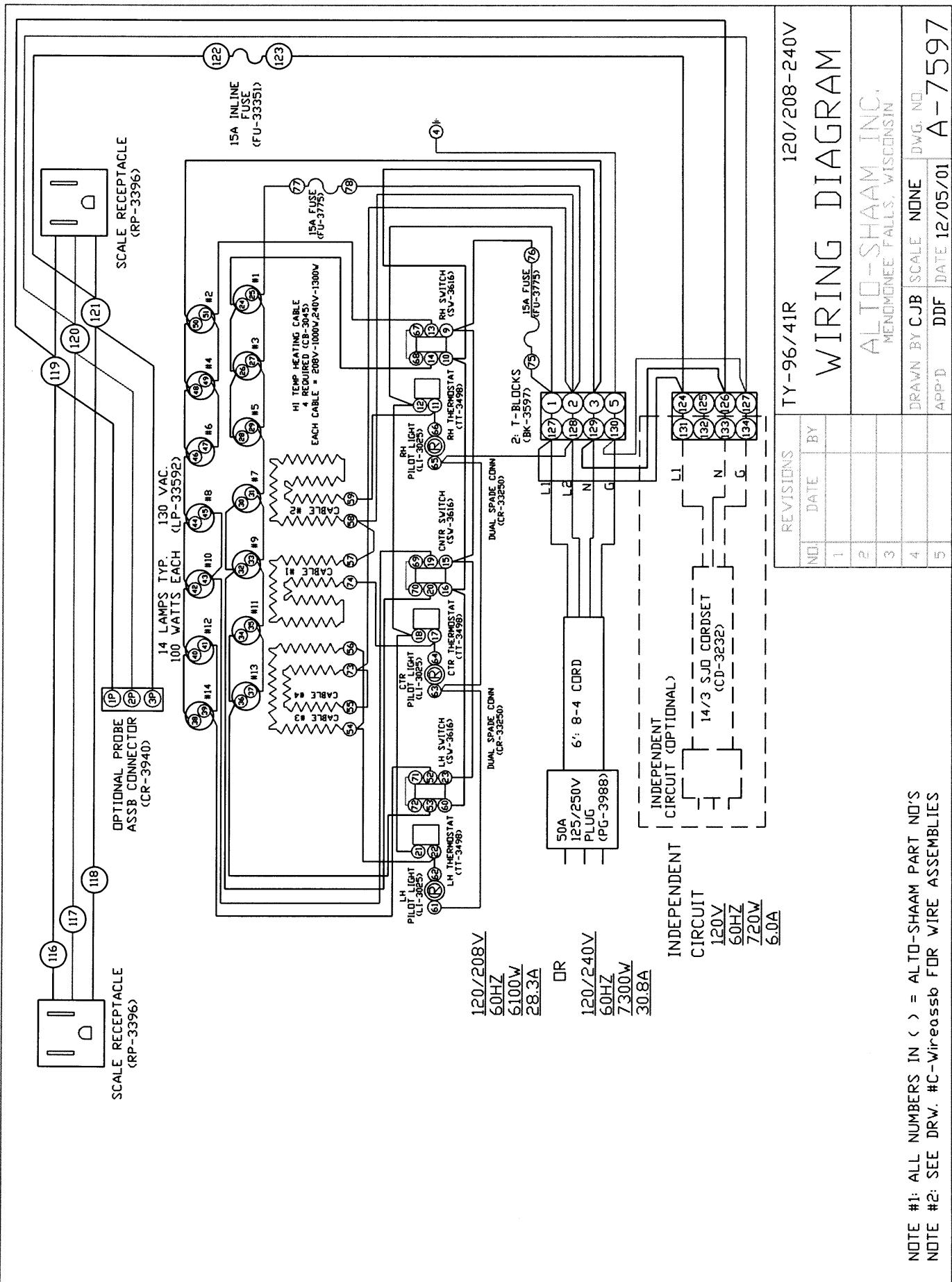
HN,TY-96/PR,PL
WIRING DIAGRAM
230V

ALTO-SHAAM INC.
MENDONNEE FALLS, WISCONSIN

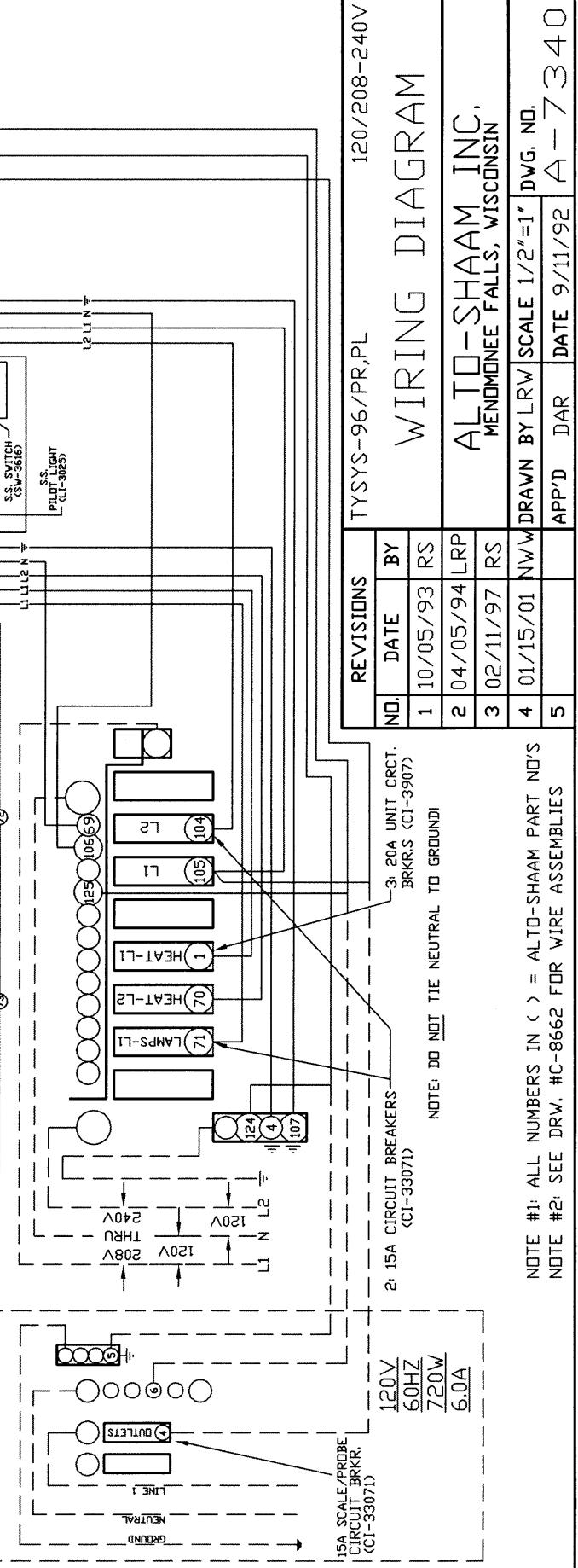
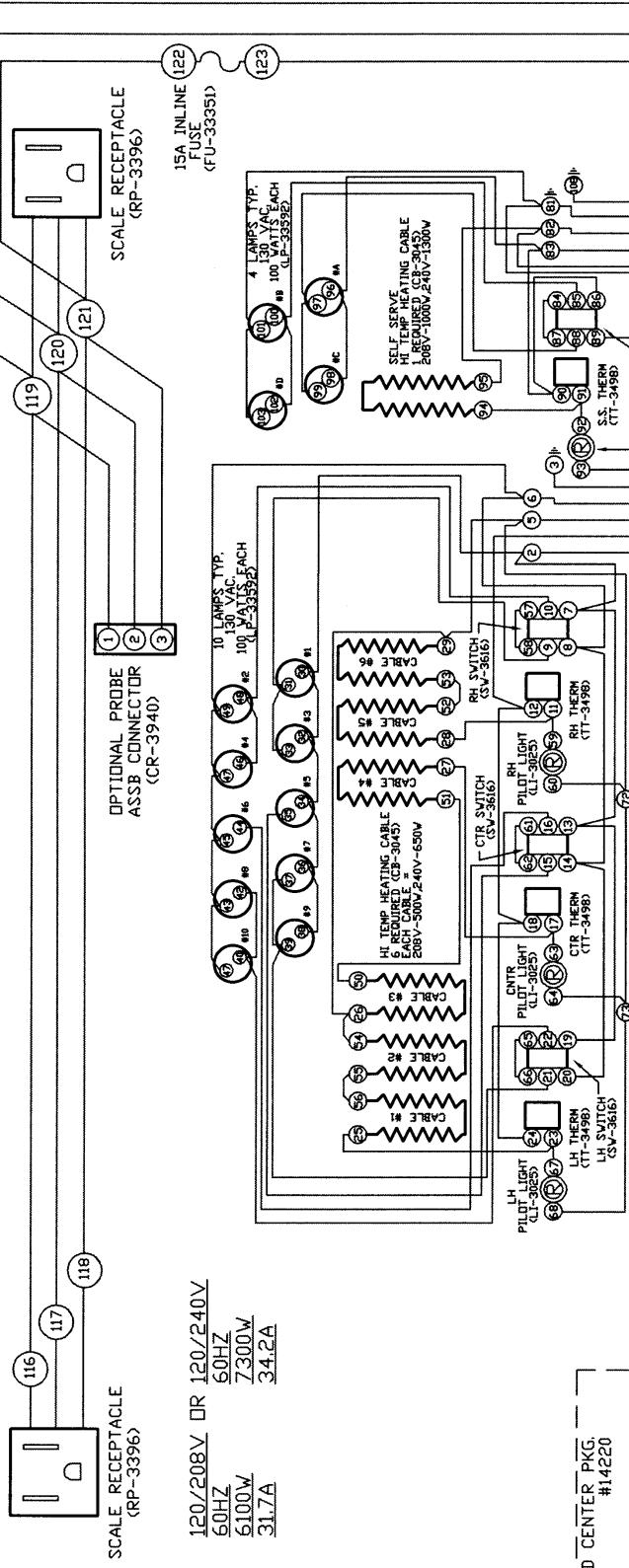
REVISIONS			
NO.	DATE	BY	
1	02/06/97	RS	
2	06/18/98	RS	
3	03/02/99	JMM	
4		DRAWN BY RS	SCALE NONE
5		APP'D MSM	DATE 11-22-94
			DWG. NO. A-7402

NOTE #1: ALL NUMBERS IN < > = ALTO-SHAAM PART NO'S
NOTE #2: SEE DRV. #C-B725 FOR WIRE ASSEMBLIES





PL UNIT IS SHOWN (PR IS ELECTRICALLY THE SAME,
BUT SELF SERVE AREA IS LOCATED ON LH SIDE OF DIAGRAM)



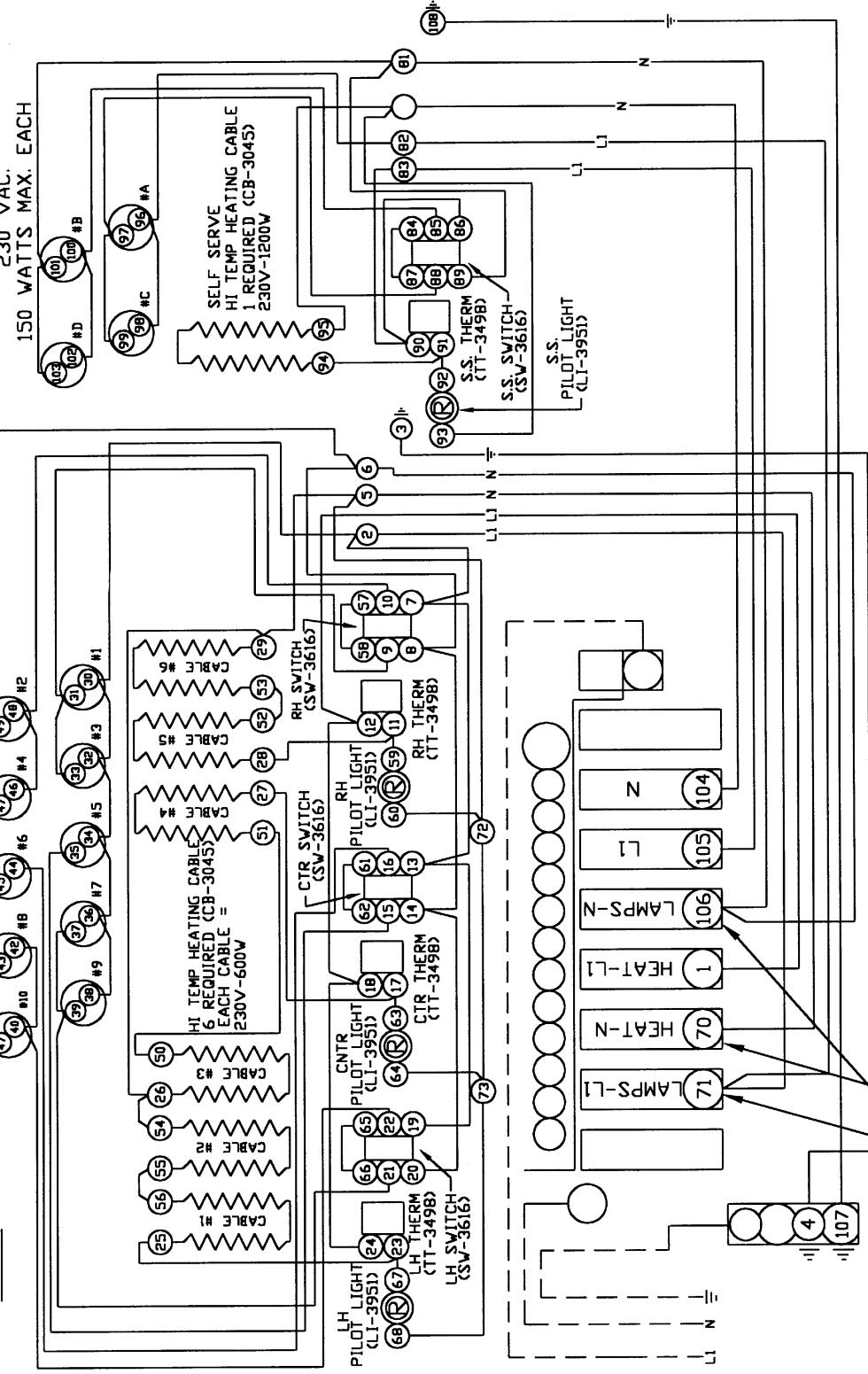
230V
50HZ
6500W
29.5A

10 LAMPS TYP.
230 VAC.
150 WATTS MAX. EACH

4 LAMPS TYP.

150 WATTS MAX. EACH

230 VAC.

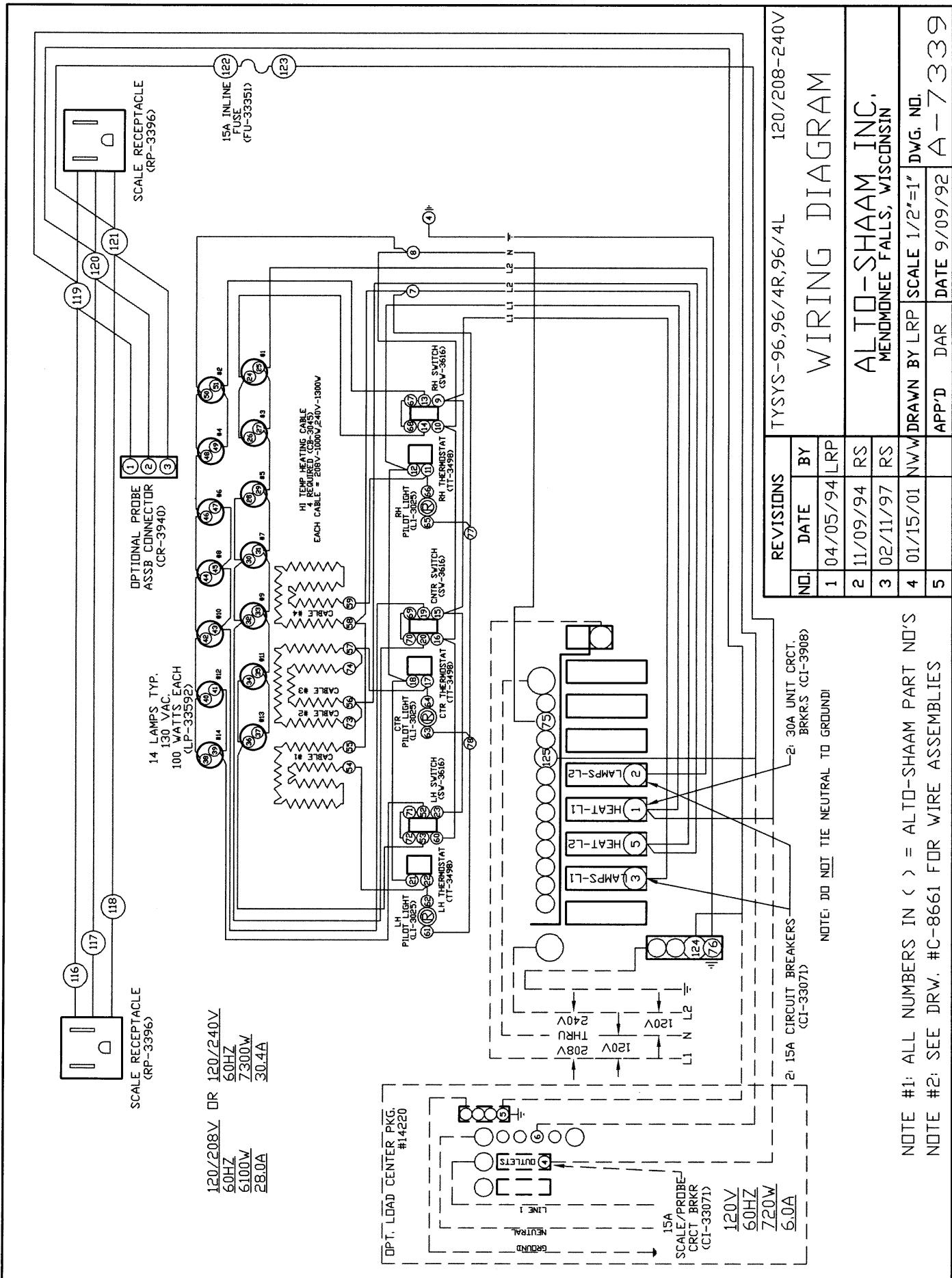


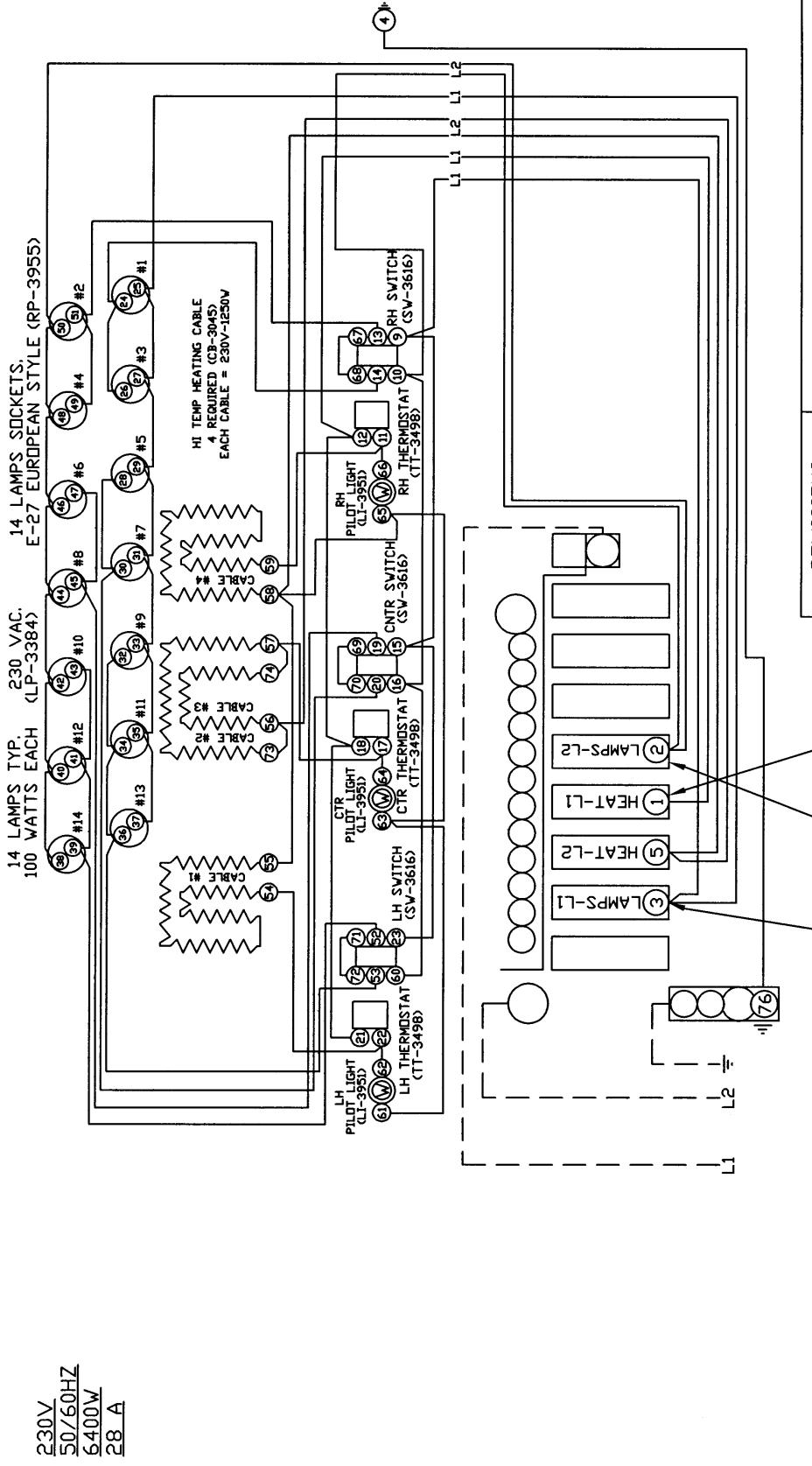
2: 15A CIRCUIT
BREAKERS (CI-3307) -

4: 20A UNIT CIRCUIT
BREAKERS (CI-3907)

NOTE #1: ALL NUMBERS IN < > = ALTO-SHAAM PART NOS
NOTE #2: SEE DRW. #B-8781 FOR WIRE ASSEMBLIES

REVISIONS		TYSYS-96/PR,PL	
NO.	DATE	BY	
1	02/11/97	RS	
2	06/18/98	RS	ALTO-SHAAM INC, MENOMONEE FALLS, WISCONSIN
3	03/02/99	JMM	
4		DRAWN BY RS	SCALE NONE
5		APP'D MSM	DWG. NO. A-7405 DATE 11-28-94





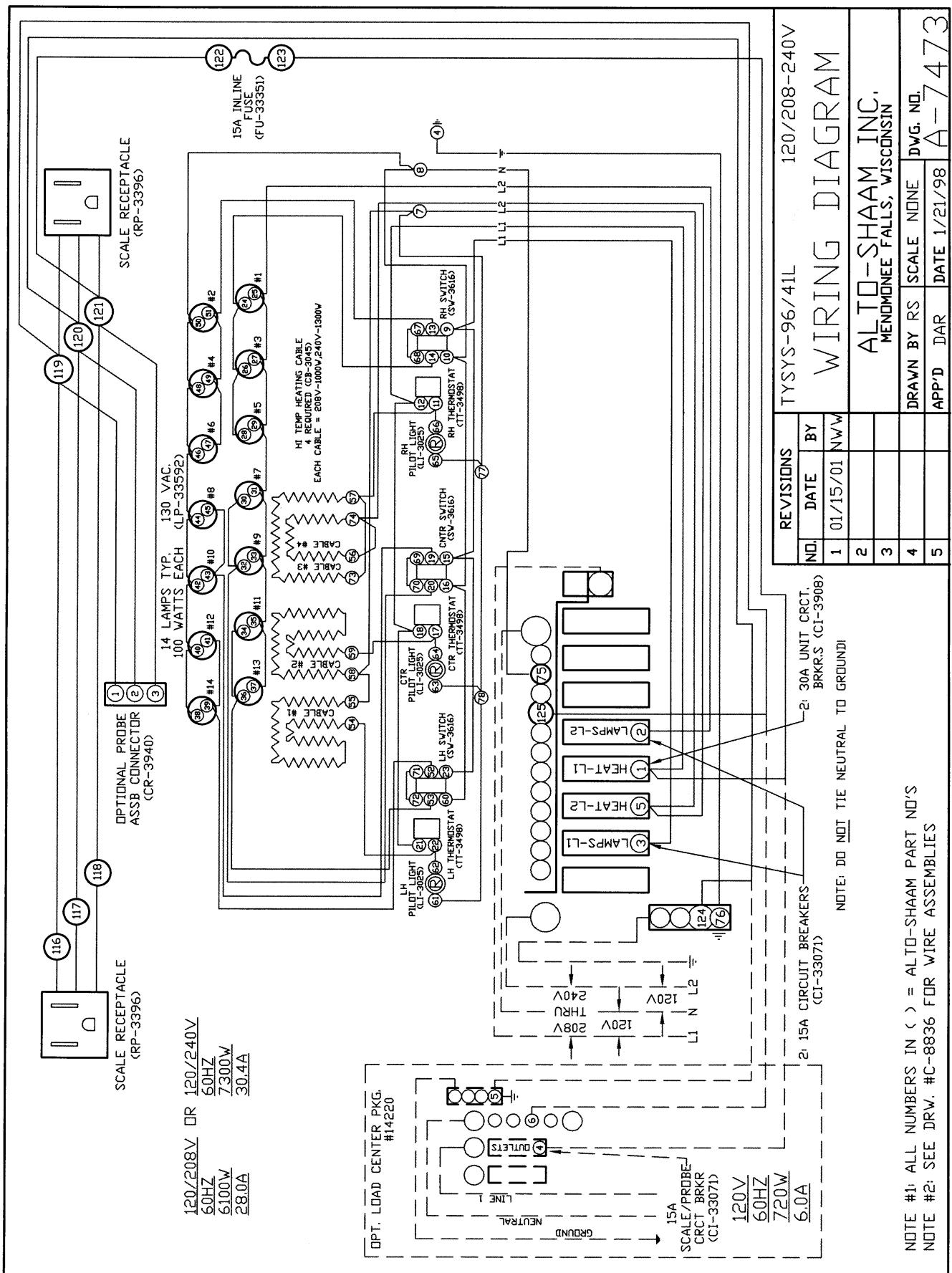
REVISIONS			TYSYS-96/4L,4R			230V		
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	2/11/97	RS	1	2/11/97	RS	1	2/11/97	RS
2	7/22/97	RS	2	7/22/97	RS	2	7/22/97	RS
3	6/18/98	RS	3	6/18/98	RS	3	6/18/98	RS
4	03/2/99	JMM	4	03/2/99	JMM	4	03/2/99	JMM
6	08/27/02	CB	5	3/12/02	CJB APP/D	5	3/12/02	CJB PED
NOTE #1: ALL NUMBERS IN < > = ALTO-SHAAM PART NO. NOTE #2: SEE DRW. # 8780 FOR WIRE ASSEMBLIES			SCALE	NO/NONE	DWG. NO.			

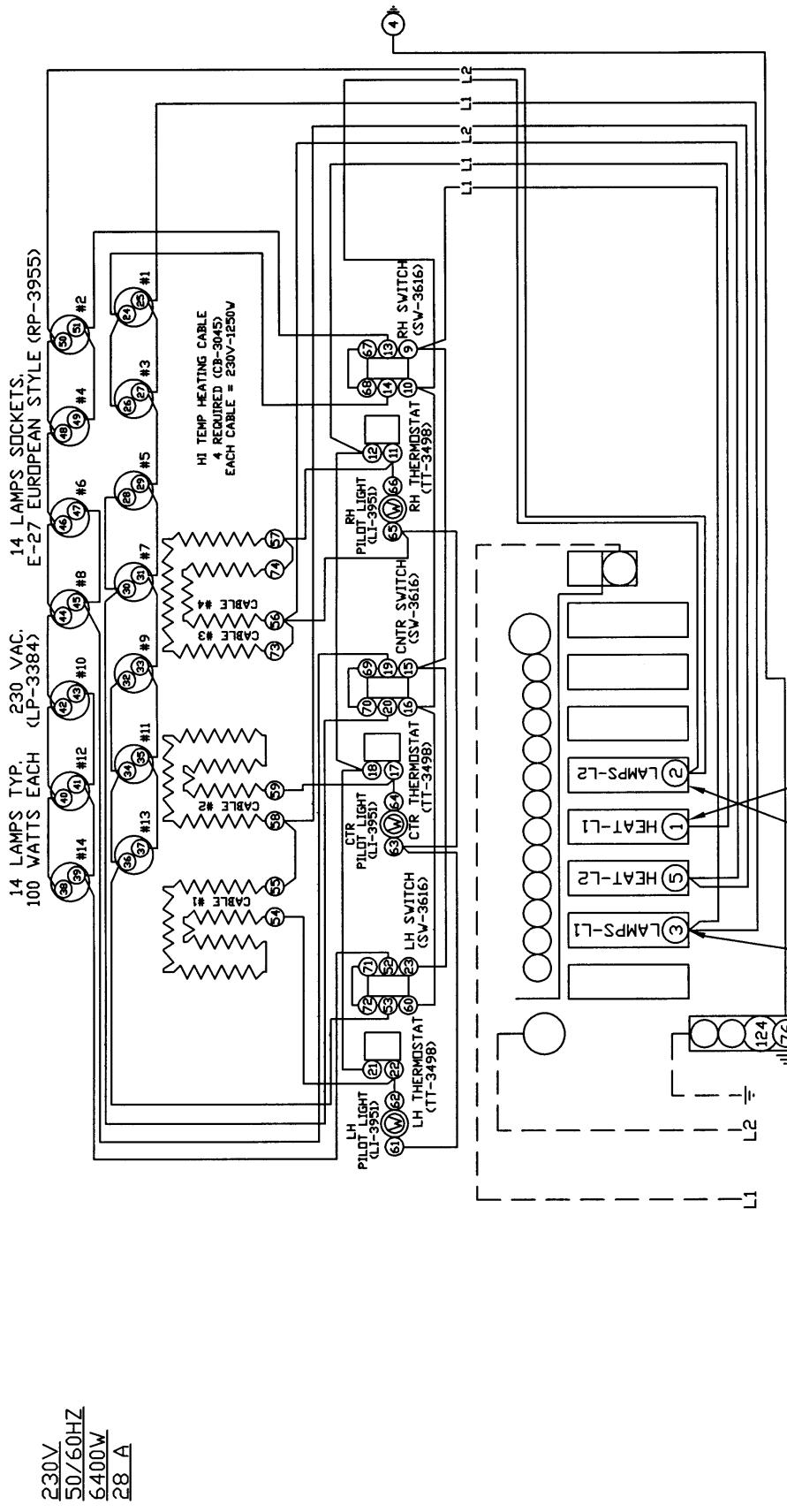
ALTO-SHAAM INC.,
MENOMONEE FALLS, WISCONSIN

2: 15A CIRCUIT BREAKERS (CI-3391)

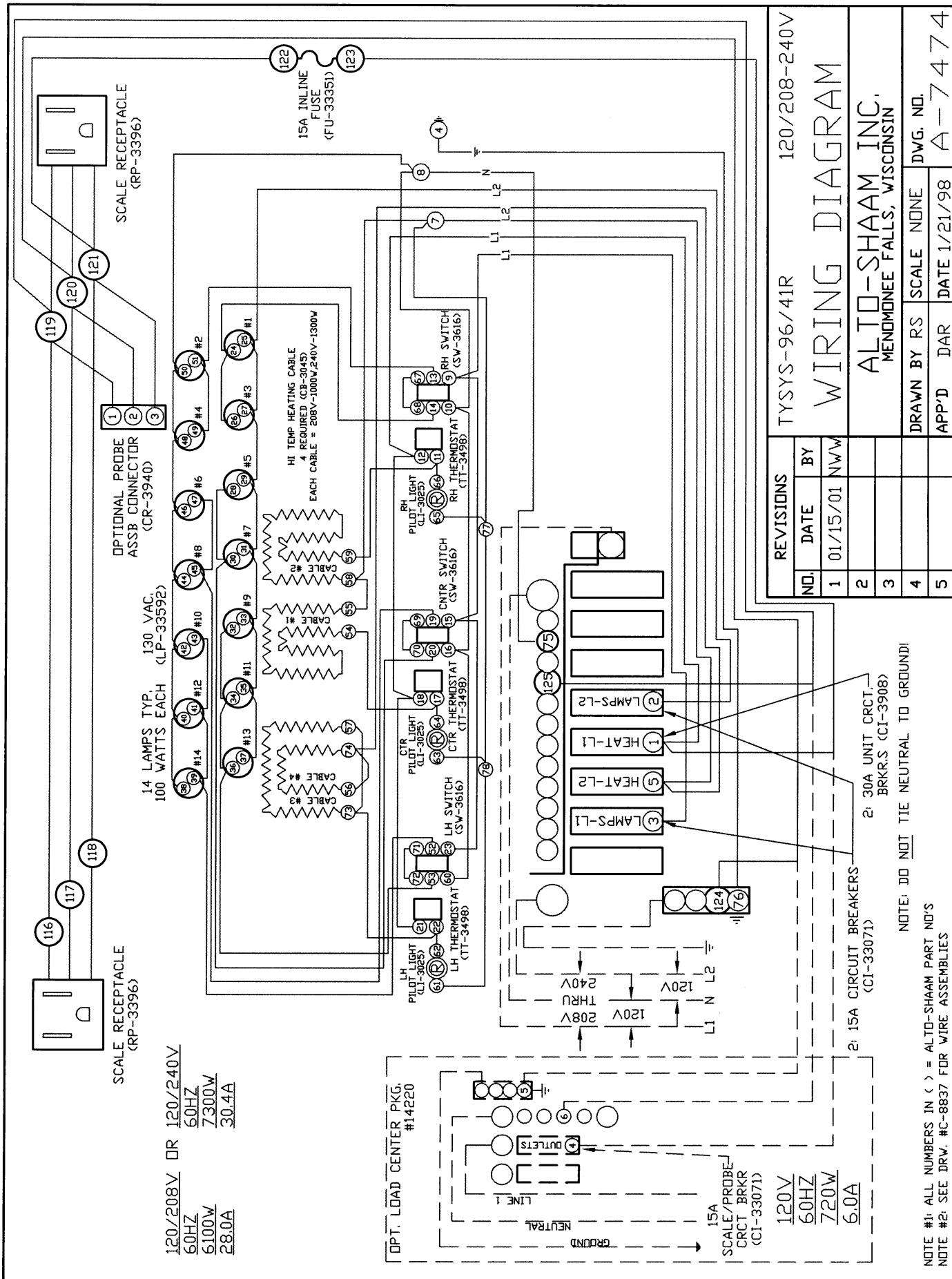
2: 30A UNIT CRCT. BRKRS (CI-3908)

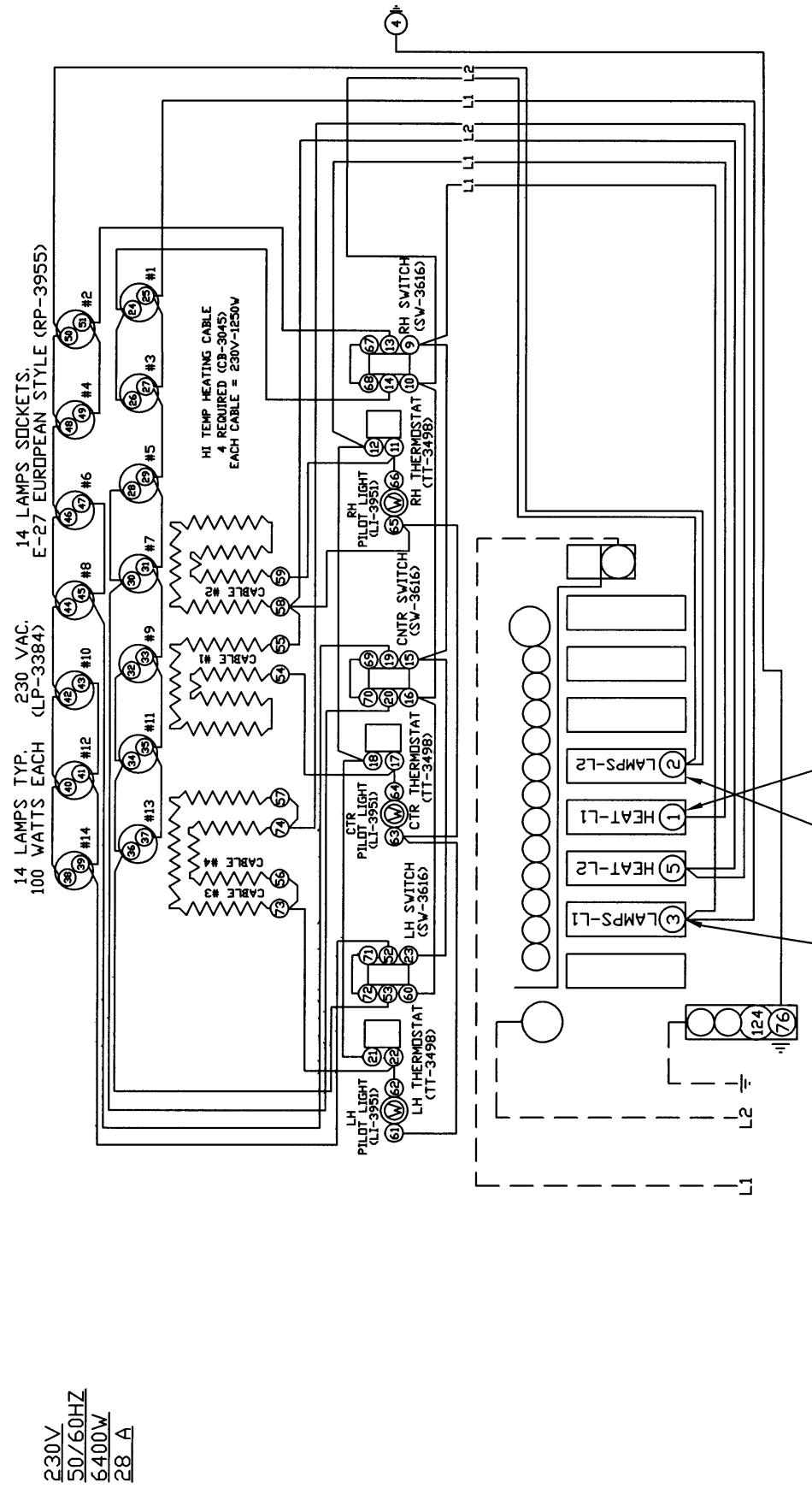
NOTE #1: ALL NUMBERS IN < > = ALTO-SHAAM PART NO.
NOTE #2: SEE DRW. # 8780 FOR WIRE ASSEMBLIES





WIRING DIAGRAM			
230V			
ALTO-SHAAM INC., MENOMONEE FALLS, WISCONSIN			DWG. NO. B-7632
DRAWN BY DDF	SCALE	NONE	
APP'D	PED	DATE 03/11/02	

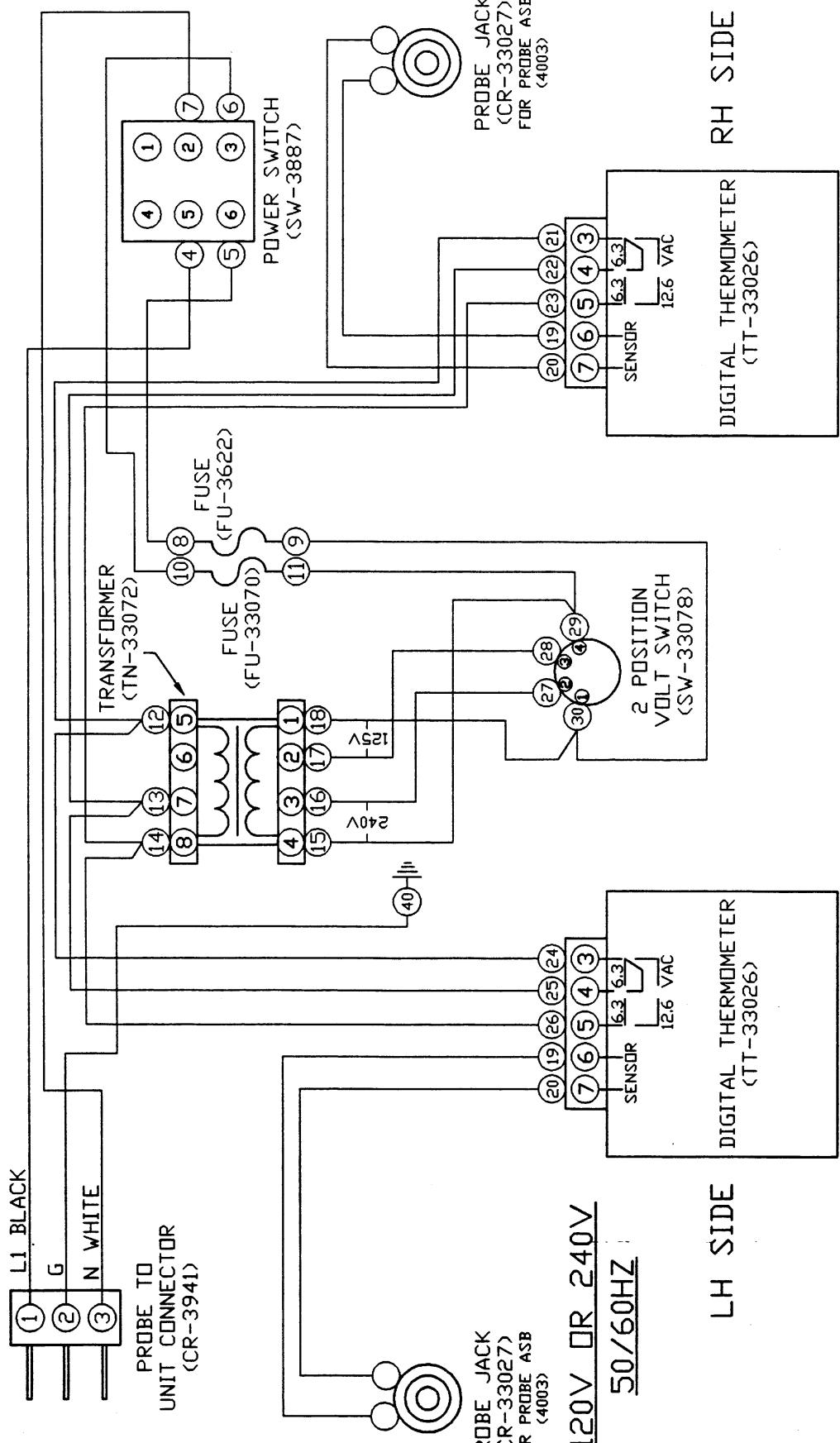




REVISIONS			WIRING DIAGRAM		
NO.	DATE	BY	NO.	DATE	BY
1	08/27/02	CB	1	08/27/02	CB
2			2		ALT - SHAAM INC., MENOMONEE FALLS, WISCONSIN
3			3		DRAWN BY DDF SCALE N/D
4			4		DWG. NO. B-7633
5			5	APP'D PED DATE 03/11/02	

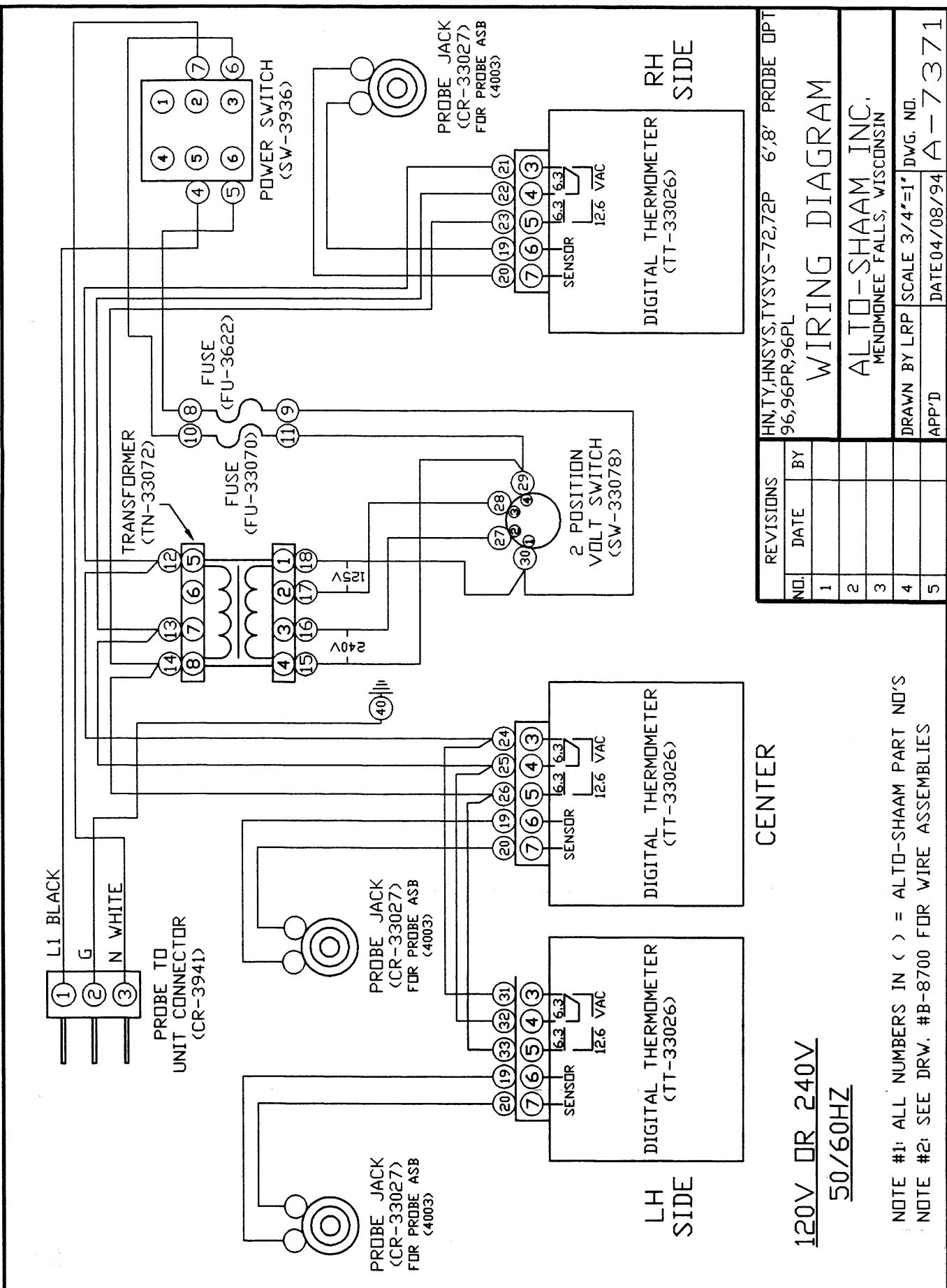
2: 15A CIRCUIT BREAKERS
 (CI-33071)
 2: 30A UNIT CRCT.
 BRKR.S (CI-3908)

NOTE #1: ALL NUMBERS IN < > = ALTD-SHAAM PART NO'S
 NOTE #2: SEE DRW. # 8103 FOR WIRE ASSEMBLIES



REVISIONS		HN,TYHNSYS,TYSYS-48,48P			
NO.	DATE	BY	72PR,72PL	WIRING DIAGRAM	
1				ALTO-SHAAM INC, MENOMONEE FALLS, WISCONSIN	
2					
3					
4			DRAWN BY LRP	SCALE 3/4"=1' DWG. NO.	
5			APP'D	DATE 04/08/94 A-7370	

NOTE #1: ALL NUMBERS IN () = ALTO-SHAAM PART NO'S
 NOTE #2: SEE DRW. #B-8699 FOR WIRE ASSEMBLIES



TRANSPORTATION DAMAGE and CLAIMS



All Alto-Shaam equipment is sold F.O.B. shipping point, and when accepted by the carrier, such shipments become the property of the consignee.

Should damage occur in shipment, it is a matter between the carrier and the consignee. In such cases, the carrier is assumed to be responsible for the safe delivery of the merchandise, unless negligence can be established on the part of the shipper.

1. Make an immediate inspection while the equipment is still in the truck or immediately after it is moved to the receiving area. Do not wait until after the material is moved to a storage area.
2. Do not sign a delivery receipt or a freight bill until you have made a proper count and inspection of all merchandise received.
3. Note all damage to packages directly on the carrier's delivery receipt.
4. Make certain the driver signs this receipt. If he refuses to sign, make a notation of this refusal on the receipt.
5. If the driver refuses to allow inspection, write the following on the delivery receipt:
Driver refuses to allow inspection of containers for visible damage.
6. Telephone the carrier's office immediately upon finding damage, and request an inspection. Mail a written confirmation of the time, date, and the person called.
7. Save any packages and packing material for further inspection by the carrier.
8. Promptly file a written claim with the carrier and attach *copies* of all supporting paperwork.

We will continue our policy of assisting our customers in collecting claims which have been properly filed and actively pursued. We cannot, however, file any damage claims for you, assume the responsibility of any claims, or accept deductions in payment for such claims.

ALTO-SHAAM® LIMITED WARRANTY

Alto-Shaam, Inc. warrants to the original purchaser that any original part that is found to be defective in material or workmanship will, at our option, subject to provisions hereinafter stated, be replaced with a new or rebuilt part.

The labor warranty remains in effect one (1) year from installation or fifteen (15) months from the shipping date, whichever occurs first.

The parts warranty remains in effect one (1) year from installation or fifteen (15) months from the shipping date, whichever occurs first.

Exceptions to the one year part warranty period are as listed:

- A. Halo Heat cook/hold ovens include a five (5) year parts warranty on the heating element. Labor will be covered under the terms of the standard warranty period of one (1) year or fifteen (15) months.
- B. Alto-Shaam Quickchillers include a five (5) year parts warranty on the refrigeration compressor. Labor will be covered under the terms of the standard warranty period of one (1) year or fifteen (15) months.

This warranty does not apply to:

1. Calibration
2. Replacement of light bulbs and/or the replacement of display case glass due to damage of any kind.
3. Equipment damage caused by accident, shipping, improper installation or alteration.
4. Equipment used under conditions of abuse, misuse, carelessness or abnormal conditions.
5. Any losses or damage resulting from malfunction, including loss of product or consequential or incidental damages of any kind.
6. Equipment modified in any manner from original model, substitution of parts other than factory authorized parts, removal of any parts including legs, or addition of any parts.

This warranty is exclusive and is in lieu of all other warranties, expressed or implied, including the implied warranties of merchantability and fitness for purpose. In no event shall the Company be liable for loss of use, loss of revenue, or loss of product or profit, or for indirect or consequential damages. This warranty is in lieu of all other warranties expressed or implied and Alto-Shaam, Inc. neither assumes or authorizes any persons to assume for it any other obligation or liability in connection with Alto-Shaam equipment.

ALTO-SHAAM, INC.

Warranty effective January 1, 2000

Record the model and serial numbers of the unit for easy reference.

Always refer to both model and serial numbers in your correspondence regarding the unit.

Model: _____
Serial Number: _____
Purchased From: _____
Date Installed: _____ Voltage: _____

HALO HEAT COOK/HOLD/SERVE SYSTEMS BY ALTO-SHAAM®

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