ALTÓ SHAAM

OPERATION and CARE MANUAL

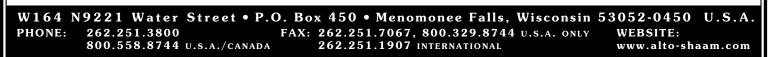


HEATED DISPLAY CASE

MODELS: TY-48 TYSYS-48 **TY-48/P**

TYSYS-48/P





HALØ

ALTO-SHAAM. HEATED DISPLAY CASES



The Alto-Shaam Hot Display Case has been thoroughly tested, checked for cali-

UNPACKING & SET-UP

bration, and inspected to insure only the highest quality cabinet 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.

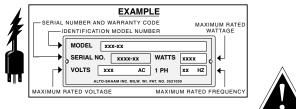
In order to maintain established National Sanitation Foundation standards, all stationary floor models must be sealed to the floor with a R.T.V. or silastic meeting N.S.F. requirements or have 6" (153mm) unobstructed clearance beneath the unit. Counter and table units must be mounted on legs of a sufficient 4" (102mm) height to provide minimum unobstructed space beneath the unit. 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

The unit must be installed by an licensed electrician in accordance with local, country or national codes.



ENSURE POWER SOURCE MATCHES VOLTAGE STAMPED ON UNIT'S NAMEPLATE

- **1.** An identification tag is permanently mounted on the case.
- **2.** Plug the case into a properly grounded receptacle ONLY, making sure the cord is accessible in case of an emergency. Arcing will occur when connecting or disconnecting the display case unless all controls are in the OFF position.
- **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 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 case. As a matter of fact, **adding water is not recommended** since water will accelerate the deterioration of the product, and may damage the case and void the warranty.

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 <u>VERY</u> important to note,** no matter what type of pan configuration chosen, pan separator bars or divider bars must be used to close all gaps between pans, and all gaps between the pans and the edges of the display case. If these gaps are not closed, heat can be pulled out of the bottom of the case into the display area. As a consequence, heat distribution can be uneven and uniform temperature will be difficult to hold. If needed, additional pan divider bars are available.

3. TURN POWER and/or BREAKER SWITCH ON

4. SET THERMOSTATS AT NUMBER 10

The display case should be preheated at the number 10 setting for a minimum of 30 minutes before loading with food. An indicator light will illuminate when the thermostats are turned ON and will remain lit as long as the unit is preheating or calling for heat. When preheating is completed, or whenever the unit reaches any temperature set by the operator between 1 and 10, the indicators will go OUT.

5. LOAD HOT FOODS - TURN LIGHTS ON

Be certain only hot food is transferred into the display case. Before loading food into the unit, use a pockettype 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 a Combitherm oven to bring the product within the correct temperature range.

- \checkmark 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.

6. RESET THERMOSTAT AS NEEDED

After all products are loaded into the display case, and the doors are closed, it is necessary to reset the thermostat. For fully enclosed cases, reset the thermostat to the number 8 setting. For self-service cases, the thermostat should be maintained at the number 9 or 10 setting. Cases with a self-service section should also be maintained at number 9 or 10 at the self-service section only. THESE SETTINGS WILL NOT NECESSARILY BE FINAL. Since proper temperature range depends on the type of products and the quantities being held, it is necessary to periodically use a thermometer to check each item to make certain the correct temperatures are being maintained. Proper temperature range is between 140°F and 160°F (60°C and 71°C). 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.

AUTION

7. 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. Contact factory for more information.

8. PLACEMENT OF FOOD PROBE (OPTION)

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.

When placing in 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. When placing in a semiliquid 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.

9. 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



NO SCRAPERS

The cleanliness and appearance of this unit will contribute considerably to operating efficiency and savory, appetizing food. Good equipment kept clean works better and lasts longer.

THOROUGHLY CLEAN UNIT DAILY

- A. Turn lights and adjustable thermostat(s) to the **OFF** position, and disconnect unit from power source. Let unit cool.
- B. Remove, cover or wrap, and store unused products under refrigeration.
- C. 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.

- D. Clean the glass with a window cleaner.
- E. To help maintain the protective film coating on polished stainless steel, clean the exterior of the unit with a cleaner recommended for stainless steel surfaces. Spray the cleaning agent on a clean cloth and wipe with the grain of the stainless steel.

CLEAN 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.

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

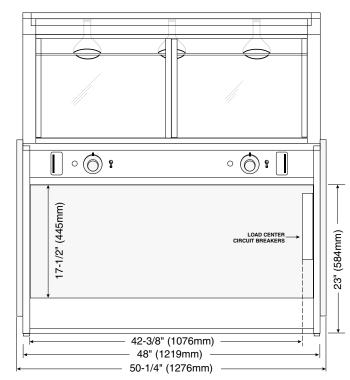
Remember to turn power and/or breaker switches **ON** before use.

At no time should the inside or outside of the unit be washed down, flooded with water or liquid solution. NEVER STEAM CLEAN. Severe damage or electrical hazard could result, voiding the warranty.



Disconnect from power source before cleaning or servicing.

Outside Dimensions - TYSYS-48



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 ire.

			temperature.
INTERNAL FOO	D PRODUCT T	EMPERATURES	A quality
H	thermometer		
DANGER ZONE	40° TO 140°F	(4° TO 60°C)	is an effective
CRITICAL ZONE	70° TO 120°F	(21° TO 49°C)	tool for this
SAFE ZONE	140° TO 165°F	(60° TO 74°C)	purpose, and
CO	should be		
DANGER ZONE	ABOVE 40°F	(ABOVE 4°C)	routinely used
SAFE ZONE	36°F TO 40°F	(2°C TO 4°C)	on all
FRO	products that		
DANGER ZONE	ABOVE 32°F	(ABOVE 0°C)	require
CRITICAL ZONE	0° TO 32°F	(-18° TO 0°C)	1
SAFE ZONE	0°F or below	(-18°C or below)	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.

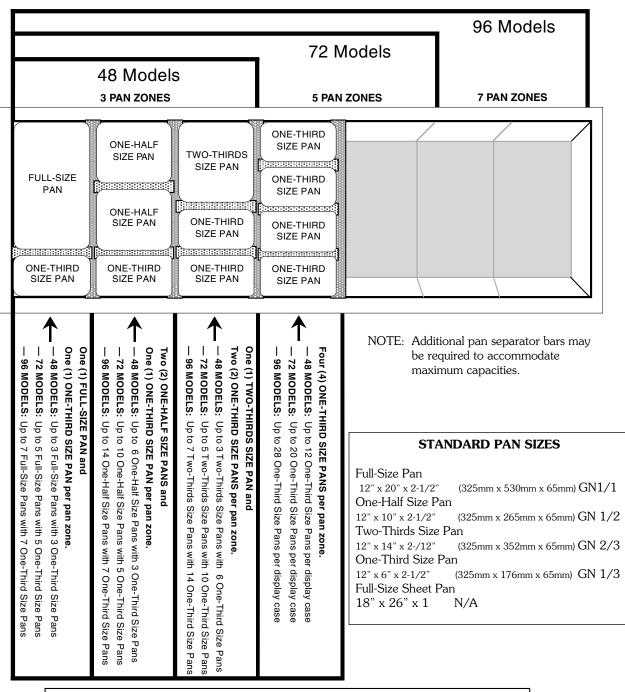
Most Halo Heat Holding Equipment is provided with a thermostat control between 60° and 200°F (16° to 93°C). If the unit is equipped with vents, close the vents for moist holding and open the vents for crisp holding.

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

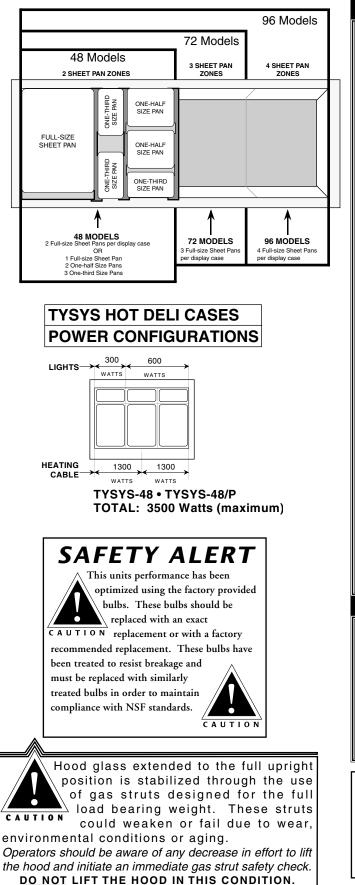
HOLDING ILMFER	ATOKE NA	NOL				
MEAT	FAHRENHEIT	CELSIUS				
BEEF ROAST — Rare	140°F	60°C				
BEEF ROAST — Med/Well Done	160°F	71°C				
BEEF BRISKET	160° — 175°F	71° — 79°C				
CORN BEEF	160° — 175°F	71° — 79°C				
PASTRAMI	160° — 175°F	71° — 79°C				
PRIME RIB — Rare	140°F	60°C				
STEAKS — Broiled/Fried	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 are suggested guidelines only.						

DISPLAY CASES



STANDARD PAN DIVIDER & SEPARATOR BARS									
ITEM NO.	ITEM NO. DESCRIPTION SIZE (W x L)								
TIEM NO.	DESCRIPTION	312E (V	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



OPTIONS & ACCESSORIES • TY-48 SERIES Bulbs - 100 Watt, 130V, STANDARD LP-33592 - 100 Watt, 130V, BLUE TINT LP-33253 - 100 Watt, 230-250V, STANDARD LP-3384 Gauge, Interior Ambient Temperature GU-33384 Glass Panes, End, Reflective, Tempered — LEFT-HAND GL-22538 Glass, Tempered, End Spacer GL-22719 Independent Circuit Cordset Pkg.* TY, 120/208-240 ONLY . 14221 Independent Load Center Pkg.* TYSYS,120/208-240 ONLY . 14220 *NOT CSA APPROVED Pan, Self Service, 4" deep 16358 Pan Separator Bar Panel, Front Custom Colors P119 Panels, End - Solid Black Patch, right-hand, TYSYS ONLY PE-23674 - Solid Black Patch, left-hand, TYSYS ONLY PE-23675 Panels, End, Stainless Steel, KIOSK ASSEMBLY, TY ONLY . 14600 Scale Platform Package 120/208-240 ONLY 14102 Multiple Timer Bar Package w/probe outlet. . FACTORY INSTALLED **TY-48 SERIES · CABLE REPLACEMENT KIT**

CABLE HEATING SERVICE KIT No. 4880

includes:	
CB-3044	Cable Heating Element
CR-3226	Ring Connector
IN-3488	Insulation Corner
BU-3105	Shoulder Bushing
BU-3106	Cup Bushing
SL-3063	Insulating Sleeve
TA-3540	Electrical Tape
ST-22439	Stud, 10-32
NU-2215	Hex Nut

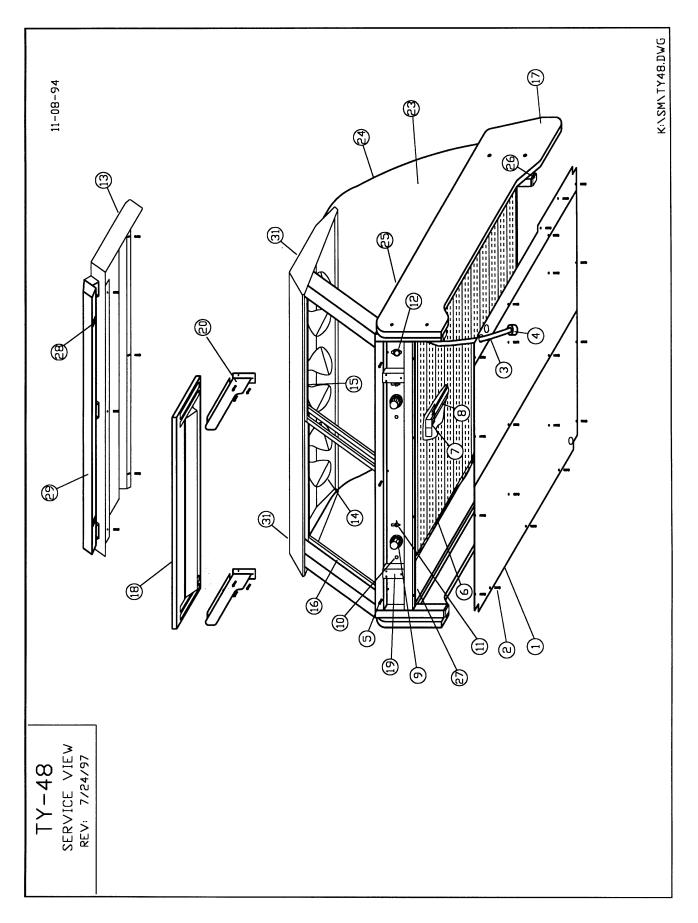
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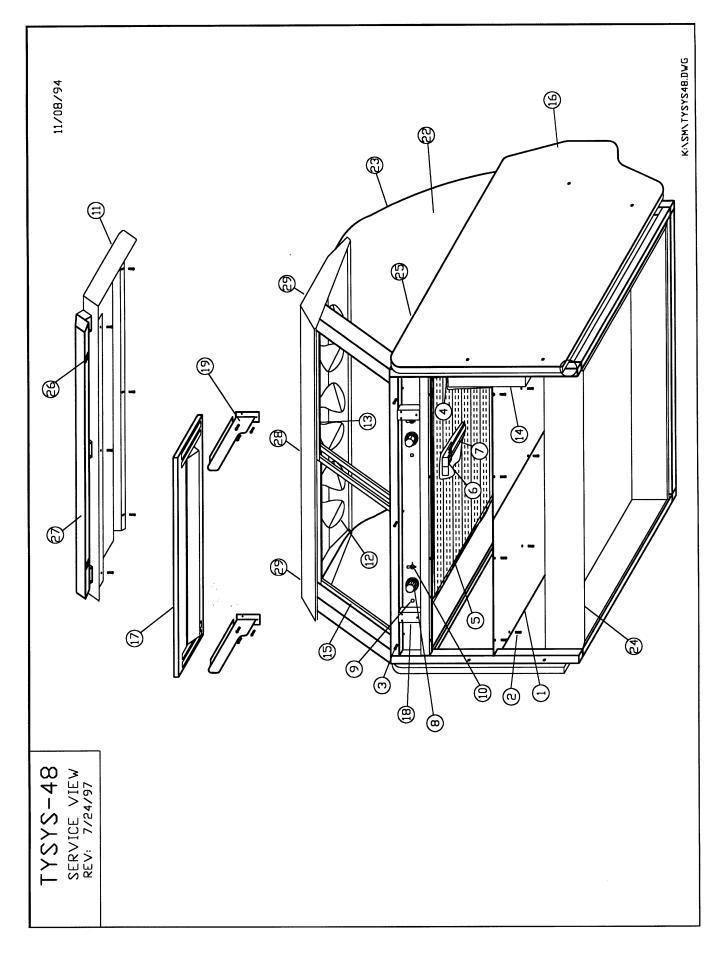
	TV AQ			TYCNC 40		
1 / 1	T Y - 4 8			T Y S Y S - 4 8		
				PART DESCRIPTION	QTY	<u>A/S PT NO</u> .
			<u>A/S PT NO</u> .	1. END PANEL BOTTOM	1	13028
1.	END PANEL BOTTOM END PANEL BOTTOM, 230V	1 1	13028 13986	RIGHT-HAND BOTTOM PANEL, 4' (1219mm)	1	13029
	RIGHT-HAND BOTTOM PANEL, 4' (1219mm)	1	13980	LEFT-HAND BOTTOM PANEL, 4' (1219mm)	1	13030
	LEFT-HAND BOTTOM PANEL, 4' (1219mm)	1	13030	2. BOTTOM MOUNTING SCREWS BOTTOM MOUNTING SCREWS	17 4	SC-2425 SC-2459
2.	BOTTOM MOUNTING SCREWS	17	SC-2425	3. CONTROL PANEL MOUNTING SCREWS	3	SC-2459
	BOTTOM MOUNTING SCREWS	4	SC-2459	4. CONDUIT TUBING: 6" (152mm)	2	TU-3874
3.	CORD: 6' (1829mm), 120/240V	1	CD-3291	5. INSULATION: 25.5 x 120" (649mm x 3049mm)	1	IN-22364
	CORD (230V)	1	CD-33490	6. CABLE CONNECTION HARDWARE		
	PLUG	1	PG-3267	7. HEATING CABLE: 132' (40234mm)	1	CB-3045
5.		3	SC-2459	8. THERMOSTAT	2	TT-3498
	INSULATION: 25.5 x 120" (649mm x 3049mm)	1	IN-22364	THERMOSTAT KNOB 9. INDICATOR LIGHT (125V)	2 2	KN-3473 LI-3025
	CABLE CONNECTION HARDWARE HEATING CABLE: 132' (40234mm)	1	CB-3045	INDICATOR LIGHT (1230)	2	LI-3025
	THERMOSTAT	2	TT-3498	10. BULB SWITCH	2	SW-3616
 .	THERMOSTAT KNOB	2	KN-3473	11. TOP	1	4379
10.	INDICATOR LIGHT (125V)	2	LI-3025	TOP MOUNTING SCREWS	3	SC-2425
	INDICATOR LIGHT (230V)	2	LI-3951	TOP MOUNTING SCREWS 12. BULB, 120/240V	3 6	SC-2459 LP-33592
	BULB SWITCH	2	SW-3616	BULB, 230V	6	LP-3844
12.	FUSEHOLDER (120V UNITS), INCLUDES:	1	FU-33041	13. BULB SOCKET, 120/240V	6	RP-3952
	FUSE, 15 AMP	1	FU-3775	BULB SOCKET, 230V	6	RP-3955
1.0	FUSEHOLDER MOUNTING SCREWS	2	SC-2077	14. CIRCUIT BOX (120V)	1	CI-3906
13.	TOP TOP MOUNTING SCREWS	1 3	4379 SC-2425	INCLUDES BREAKER, 15 AMP GROUND BAR KIT	1 1	CI-33071 CI-3878
	TOP MOUNTING SCREWS	3	SC-2425	BREAKER, 20 AMP	2	CI-3907
14.	BULB, 120/240V	6	LP-33592	CIRCUIT BOX (230V)	1	CI-3906
1	BULB, 230V	6	LP-3384	INCLUDES BREAKER, 15 AMP	2	CI-33071
15.	BULB SOCKET, 120/240V	6	RP-3952	GROUND BAR KIT BREAKER, 20 AMP	1 2	CI-3878 CI-3907
	BULB SOCKET, 230V	6	RP-3955	15. DOOR ASSEMBLY	2	CI-3507
16.	DOOR ASSEMBLY			LEFT HAND GLASS DOOR	1	DR-22480A
	LEFT HAND GLASS DOOR		DR-22480A	RIGHT HAND GLASS DOOR		DR-22480B
	RIGHT HAND GLASS DOOR GUIDES #44049		DR-22480B DR-22480F	GUIDES #44049 DOOR BUMPER ASSEMBLY		DR-22480F DR-22480G
	DOOR BUMPER ASSEMBLY		DR-22480F	TOP TRACK	1	TK-23748
	TOP TRACK	1	TK-23748	BOTTOM TRACK	1	TK-24265
	BOTTOM TRACK	1	TK-24265	16. END PANEL	2	PE-22493
17.	END PANEL	2	PE-22585	17. CUTTING BOARD ASSEMBLY	1	4016
18.	CUTTING BOARD ASSEMBLY	1	4016	18. CUTTING BOARD BRACKET (BASE) CUTTING BOARD BRACKET MTG, SCREWS	2 6	12069 SC-24520
19.	CUTTING BOARD BRACKET (BASE)	2	12069	19. CUTTING BOARD BRACKET	2	BT-2342
	CUTTING BOARD BRACKET MTG. SCREWS			22. END GLASS	2	GL-22479
	CUTTING BOARD BRACKET	2	BT-2342	END GLASS GASKET: 5' (1524mm)	1	GS-22547
23.	END GLASS	2	GL-22479	23. FRONT GLASS	1	GL-22477
94	END GLASS GASKET: 5' (1524mm) FRONT GLASS	1 1	GS-22547 GL-22477	24. BASE BOTTOM	1	1288
	PAN DIVIDER BARS (NOT SHOWN)	T	UL-224//	25. PAN DIVIDER BARS (NOT SHOWN) SHEET PAN	1	11046
20.	SHEET PAN	1	11046	THIRD SIZE PAN	1	11040
	THIRD SIZE PAN	1	11047	FULL/HALF/THIRD (LONG BAR)	2	11317
	FULL/HALF/THIRD (LONG BAR)	2	11317	FULL/HALF/THIRD (SHORT BAR)	9	11318
	FULL/HALF/THIRD (SHORT BAR)	9	11318	SHEET PAN SHEET PAN	1 2	11319 11320
	SHEET PAN	1	11319	26. SNAP-IN RECEPTACLES	2	RP-3396
0.	SHEET PAN	2	11320	27. OUTLET HOUSING COVER	1	4951
	ADJUSTABLE LEGS	4	LG-22686	28. RECEPTACLE FUSE, 15 AMP	1	FU-33351
	TERMINAL BLOCKS, 4 POS SNAP-IN RECEPTACLES	2 2	BK-3597 RP-3396	RECEPTACLE FUSEHOLDER, 15 AMP	1	FU-33352
20.	RECEPTACLE FUSE, 15 AMP	2	FU-33351	29. FRONT GLASS STRUTS	2	SU-22702
	RECEPTACLE FUSEHOLDER, 15 AMP	1	FU-33352	30. 4' PROBE PACKAGE OPTION (NOT SHOWN)	1	5295
29.	OUTLET HOUSING COVER	1	4951	31. LOAD CTR.PKG. OPTION (NOT SHOWN)INCLUDES: LOAD CENTER	1 1	14220 CI-3877
	4' PROBE PACKAGE OPTION (NOT SHOWN)	1	5295	GROUND BAR KIT	1	CI-3878
31.	FRONT GLASS STRUTS	2	SU-22702	BREAKER, 15 AMP	1	CI-33071
32.	OPTIONAL INDEPENDENT CIRCUIT CORDSET			CONNECTOR NUT	1 1	CR-3953 NU-3954
	120V, (NOT SHOWN) - NOT CSA APPROVED	1	14221		1	110-3934
	<u> </u>					

Disconnect Unit from Power Source Before Cleaning or Servicing.

CAUTION

#854 Operation & Care Manual • 6

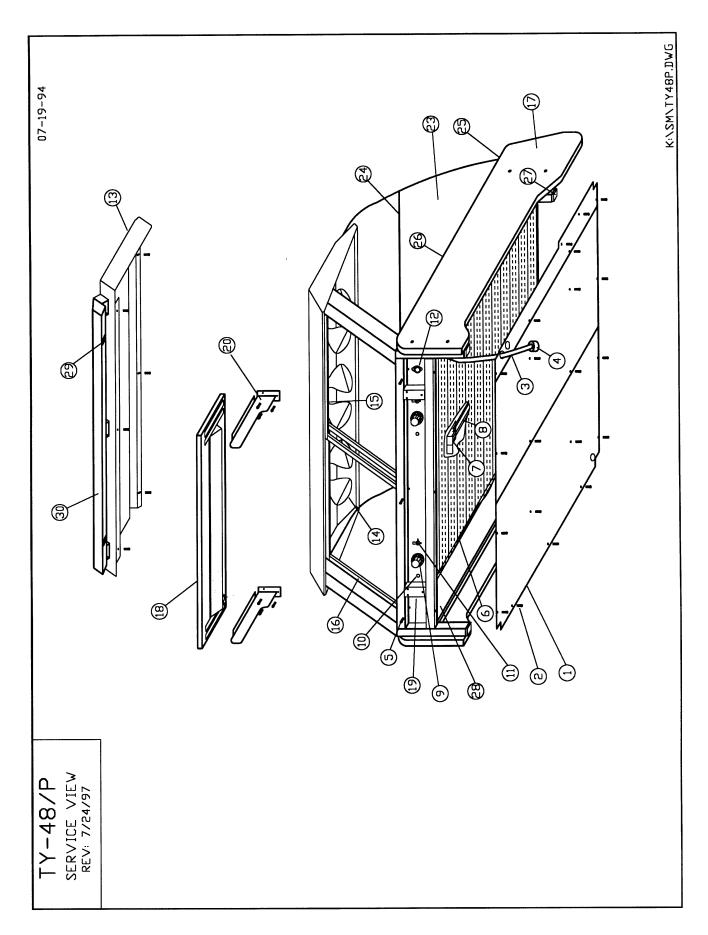


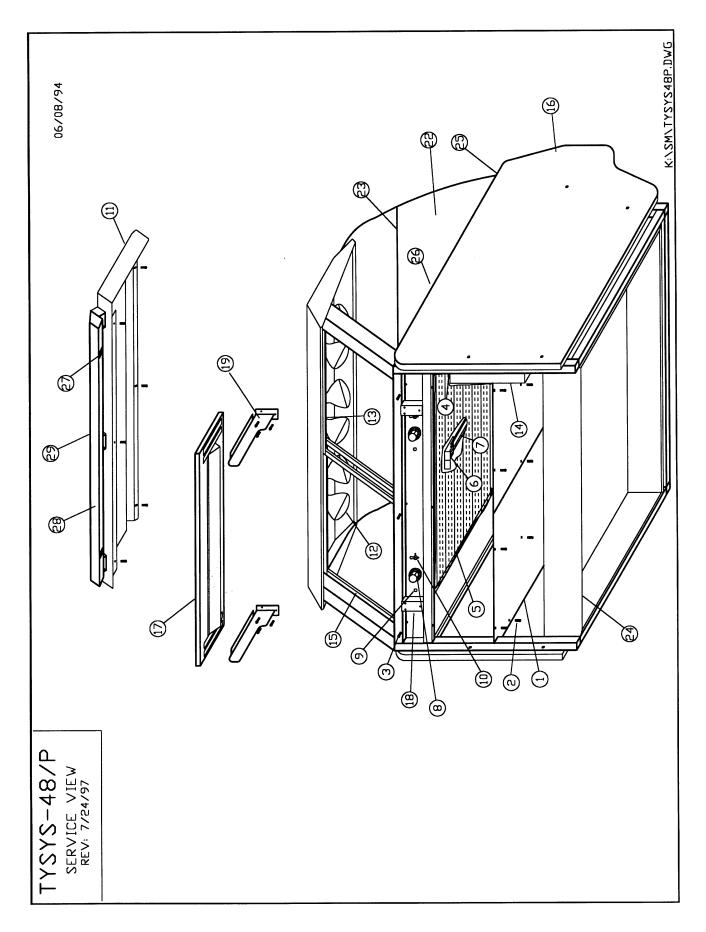


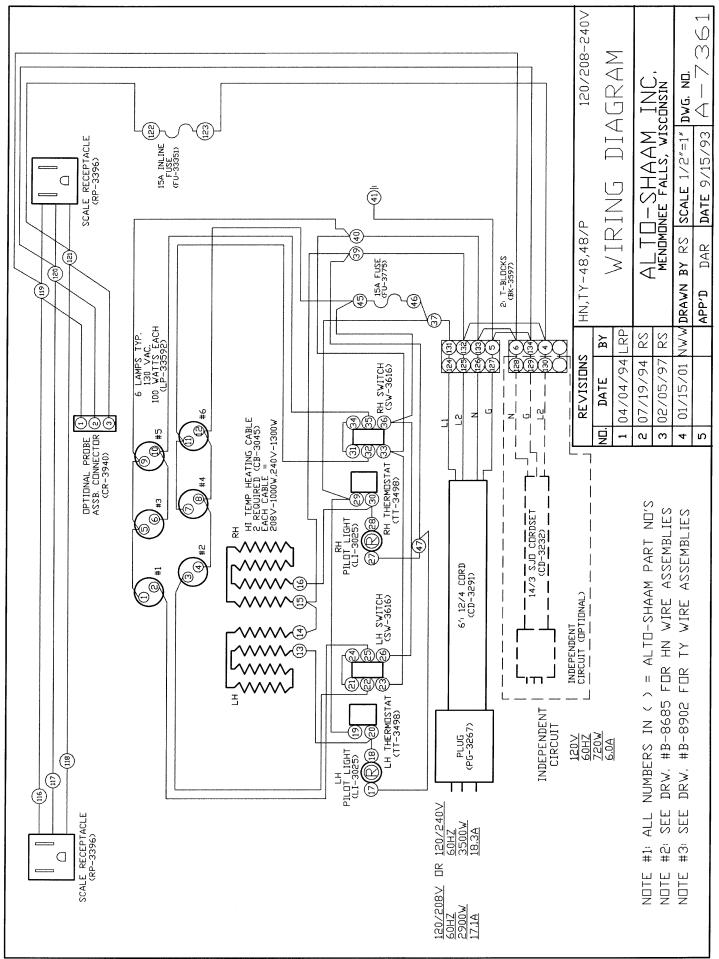
	TY-48/P PASS T	. .,			TYSYS-48/P PASS-	Т	
12	/22/00		ΥÜ	1/1	11313-48/P PASS		ΠΚΟ
	PART DESCRIPTION	<u>2TY</u>	A/S PT NO.		PART DESCRIPTION	QTY	A/S PT NO.
1.	END PANEL BOTTOM	1	13028	1.	END PANEL BOTTOM	1	13028
	END PANEL BOTTOM, 230V	1	13986		RIGHT-HAND BOTTOM PANEL, 4' (1219mm)	1	13029
	RIGHT-HAND BOTTOM PANEL, 4' (1219mm)	1	13029		LEFT-HAND BOTTOM PANEL,4' (1219mm)	1	13030
	LEFT-HAND BOTTOM PANEL,4' (1219mm)	1		2.	BOTTOM MOUNTING SCREWS BOTTOM MOUNTING SCREWS	17 4	SC-2425 SC-2459
2.	BOTTOM MOUNTING SCREWS BOTTOM MOUNTING SCREWS	17 4	SC-2425 SC-2459	2	CONTROL PANEL MOUNTING SCREWS	4	SC-2459 SC-2459
2	CORD: 6' (1829mm) 120/240V	1	CD-3291		CONDUIT TUBING: 6" (152mm)	2	TU-3874
3.	CORD (230V)	1	CD-3291 CD-33490		INSULATION, 25.5" x 120" (649mm x 3049mm)	-	IN-22364
4	PLUG	1	PG-3267		CABLE CONNECTION HARDWARE	1	111 22001
	CONTROL PANEL MOUNTING SCREWS	3	SC-2459		HEATING CABLE: 132' (40234mm)	1	CB-3045
	INSULATION, 25.5" x 120" (649mm x 3049mm)	1	IN-22364		THERMOSTAT	2	TT-3498
	CABLE CONNECTION HARDWARE	-			THERMOSTAT KNOB	2	KN-3473
	HEATING CABLE: 132' (40234mm)	1	CB-3045	9.	INDICATOR LIGHT, 125V	2	LI-3025
	THERMOSTAT	2	TT-3498		INDICATOR LIGHT, 230V	2	LI-3951
1	THERMOSTAT KNOB	2	KN-3473		BULB SWITCH	2	SW-3616
10	. INDICATOR LIGHT, 125V	2	LI-3025	11.	TOP TOP MOUNTING SCREWS	1 3	4379 SC-2425
	INDICATOR LIGHT, 230V	2	LI-3951		TOP MOUNTING SCREWS	3	SC-2425
11	BULB SWITCH	2	SW-3616	12.	BULB, 120/240V	6	LP-33592
12	FUSEHOLDER, 120V	1	FU-33041		BULB, 230V	6	LP-3384
	INCLUDES:			13.	BULB SOCKET, 120/240V	6	RP-3952
	FUSE, 15 AMP FUSEHOLDER MOUNTING SCREWS	1 2	FU-3775 SC-2425		BULB SOCKET, 230V	6	RP-3955
12	TOP	1	4379	14.	CIRCUIT BOX (120V) INCLUDES BREAKER, 15 AMP	1 1	CI-3906 CI-33071
13	TOP MOUNTING SCREWS	3	4379 SC-2425		GROUND BAR KIT	1	CI-33071 CI-3878
	TOP MOUNTING SCREWS	3	SC-2459		BREAKER, 20 AMP	2	CI-3907
14	.BULB, 120/240V	6	LP-33592		CIRCUIT BOX (230V)	1	CI-3906
	BULB, 230V	6	LP-3384		INCLUDES BREAKER, 15 AMP	2	CI-33071
15	BULB SOCKET, 120/240V	6	RP-3952		GROUND BAR KIT BREAKER, 20 AMP	1 2	CI-3878 CI-3907
	BULB SOCKET, 230V	6	RP-3955	15.	DOOR ASSEMBLY		
16	. DOOR ASSEMBLY LEFT HAND GLASS DOOR	1	DR-22480A		LEFT HAND GLASS DOOR		DR-22480A
	RIGHT HAND GLASS DOOR		DR-22480B		RIGHT HAND GLASS DOOR GUIDES #44049	1 8	
	GUIDES #44049		DR-22480F		DOOR BUMPER ASSEMBLY	0 1	
	DOOR BUMPER ASSEMBLY		DR-22480G		TOP TRACK	1	TK-23748
	TOP TRACK BOTTOM TRACK	1 1			BOTTOM TRACK	1	TK-24265
17	. END PANEL	2	PE-22585		END PANEL	2	PE-22493
	CUTTING BOARD ASSEMBLY	1	4016		CUTTING BOARD ASSEMBLY	1	4016
	CUTTING BOARD BRACKET (BASE)	2	12069	18.	CUTTING BOARD BRACKET (BASE) CUTTING BOARD BRACKET MTG, SCREWS	2	12069 SC-24520
	CUTTING BOARD BRACKET MTG. SCREWS	6	SC-24520	19	CUTTING BOARD BRACKET	1	BT-2342
20	. CUTTING BOARD BRACKET	2	BT-2342		END GLASS	2	GL-22479
23	END GLASS	2	GL-22479		END GLASS GASKET: 3' (914mm)	1	GS-22547
	END GLASS GASKET: 3' (914mm)	1	GS-22547	23.	FRONT GLASS	1	GL-22475
24	FRONT GLASS	1	GL-22475	24.	BASE BOTTOM	1	1288
25	CUSTOMER GUARD: 4' (1219mm)	1	11096	25.	CUSTOMER GUARD: 4' (1219mm)	1	11096
	SPACER	2 2	SP-24586		SPACER MOUNTING SCREWS	2 2	SP-24586 SC-2073
06	MOUNTING SCREWS	Z	SC-2073	26	PANS (not shown)	2	36-2073
26	. PANS (NOT SHOWN) SELF-SERVE PAN	1	11624	20.	SELF-SERVE PAN	1	11624
	SELF-SERVE PAN GRID	2	PN-22048		SELF-SERVE PAN GRID	2	PN-22048
27	ADJUSTABLE LEGS	4	LG-22686	27.	SNAP-IN RECEPTACLES	2	RP-3396
28	TERMINAL BLOCKS, 4 POS	2	BK-3597		OUTLET HOUSING COVER	1	4951
29	SNAP-IN RECEPTACLES	2	RP-3396	29.	RECEPTACLE FUSE, 15 AMP	1	FU-33351
	RECEPTACLE FUSE, 15 AMP	1	FU-33351	30	RECEPTACLE FUSEHOLDER, 15 AMP 4' PROBE PACKAGE OPTION (NOT SHOWN)	1 1	FU-33352 5295
	RECEPTACLE FUSEHOLDER, 15 AMP	1	FU-33352		LOAD CTR. PKG OPTION (NOT SHOWN) INCLUDES		14220
	OUTLET HOUSING COVER	1	4951	J1.	LOAD CENTER	1	CI-3877
	. 4' PROBE PACKAGE OPTION (NOT SHOWN)	1	5295		GROUND BAR KIT	1	CI-3878
32	OPTIONAL INDEPENDENT CIRCUIT CORDSET	-	14001		BREAKER, 15 AMP	1	CI-33071
	120V, (not shown) - NOT CSA APPROVED \wedge	1	14221		CONNECTOR NUT	1 1	CR-3953 NU-3954
	A	_				-	
1	Disconne / Disconne	ect l	Init trom Pov	VPY S	Source Before Cleaning or Servicing.		

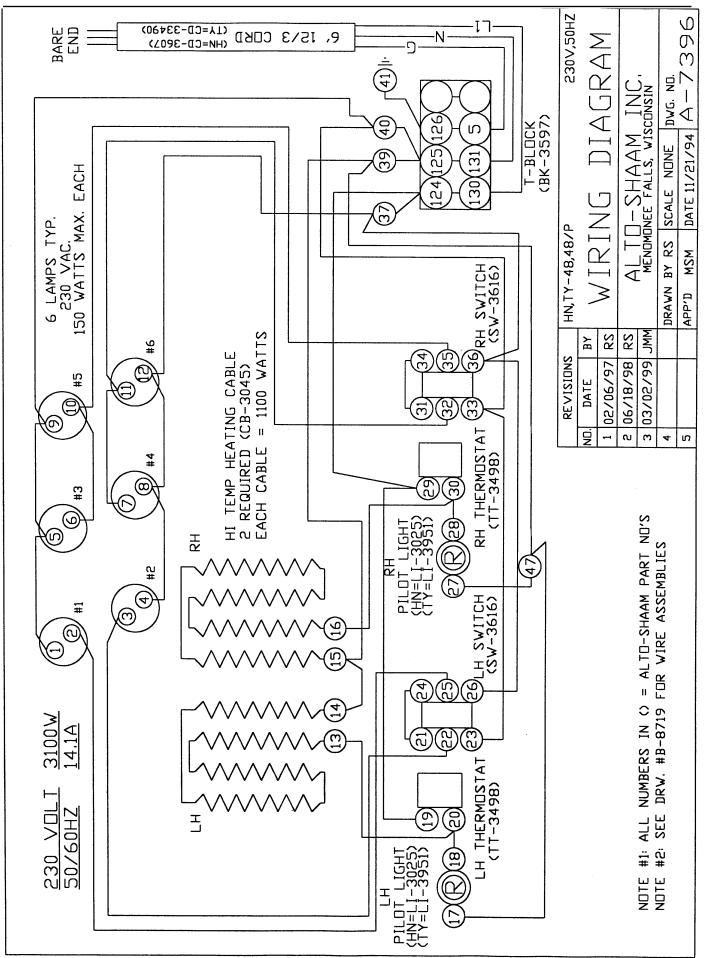
Disconnect Unit from Power Source Before Cleaning or Servicing.

#854 Operation & Care Manual • 9

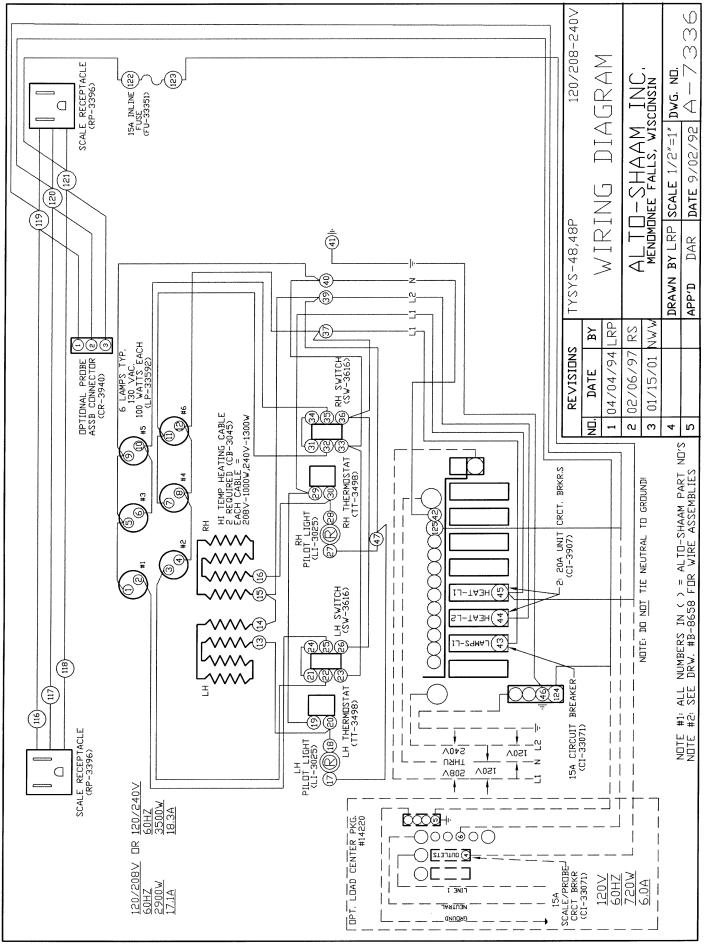




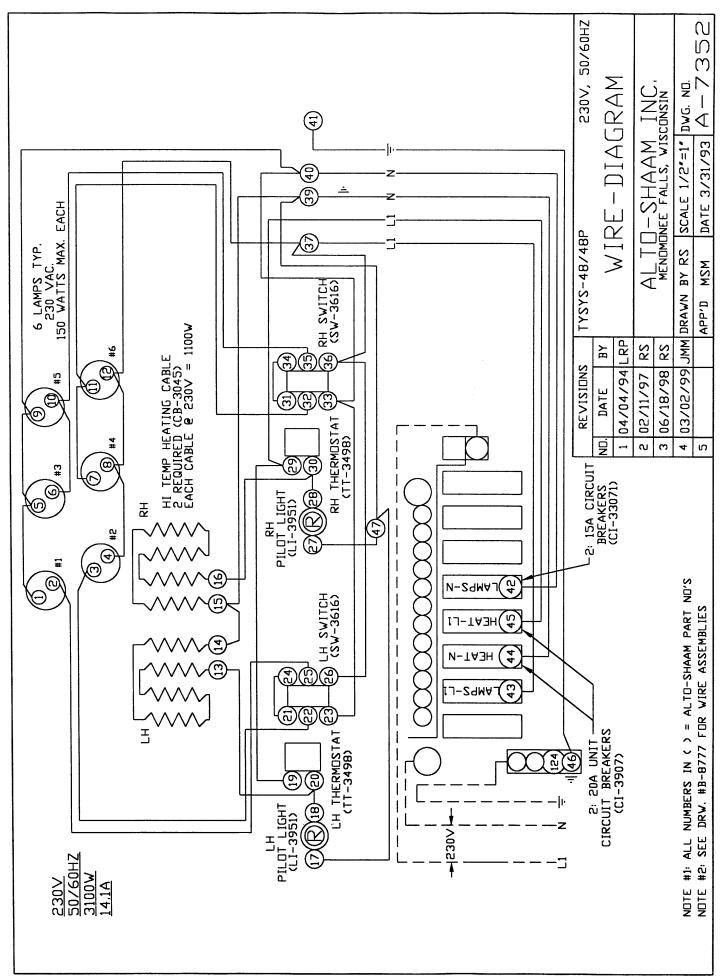


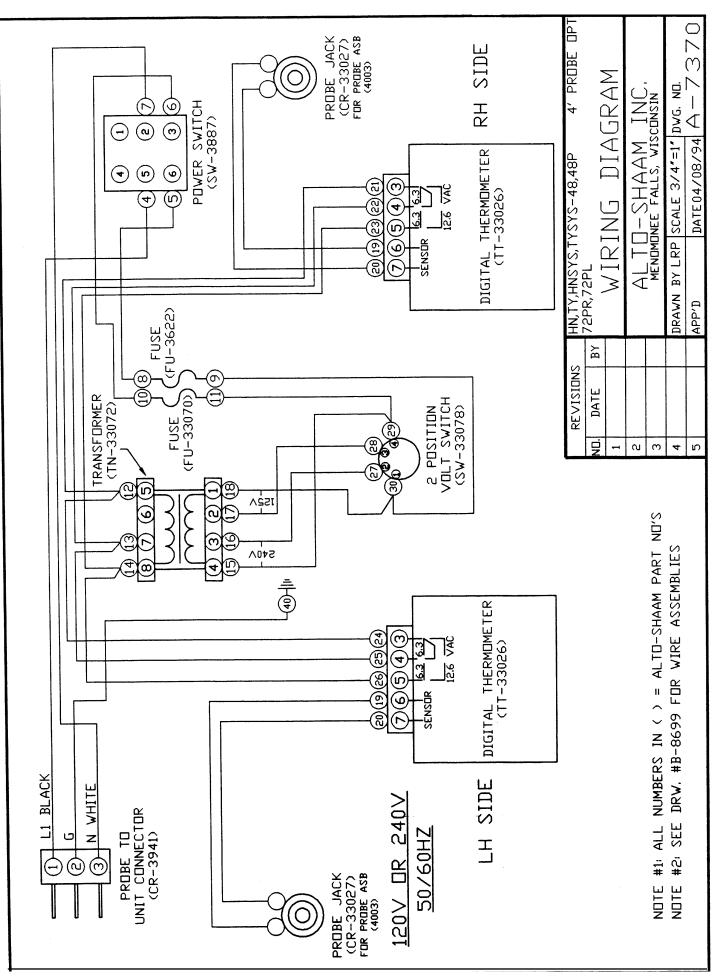


#854 Operation & Care Manual • 13



#854 Operation & Care Manual • 14





^{#854} Operation & Care Manual • 16

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.

- 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.
- 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:	1			
Serial Number:				
Purchased From:				
Date Installed:		Vo	ltage:	
			0	

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

W164 N9221 Water Street • P.O. Box 450 • Menomonee Falls, Wisconsin 53052-0450 • U.S.A.

PHONE: 262.251.3800 II 800.558.8744 U.S.A./CANADA

FAX: 262.251.7067 • 800.329.8744 U.S.A./CANADA 262.251.1907 INTERNATIONAL

website: www.alto-shaam.com