



Heated Display Cases

Full Service or Self Service



EC2SYS-48

EC2-48



HN2SYS-72

HN2-72



TY2SYS-96

TY2-96

Models:

EC2(SYS)-48 SERIES
EC2(SYS)-72 SERIES
EC2(SYS)-96 SERIES

HN2(SYS)-48 SERIES
HN2(SYS)-72 SERIES
HN2(SYS)-96 SERIES

TY2(SYS)-48 SERIES
TY2(SYS)-72 SERIES
TY2(SYS)-96 SERIES

- **INSTALLATION**
- **OPERATION**
- **MAINTENANCE**

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www.alto-shaam.com



Consult instructions
for operation and use.



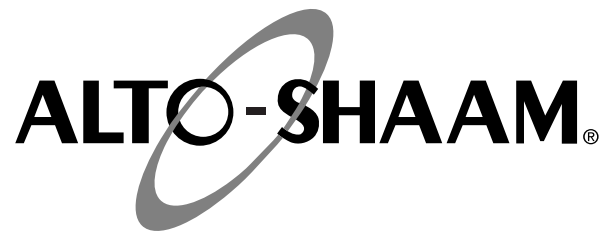


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DELIVERY

This Alto-Shaam appliance has been thoroughly tested and inspected to ensure only the highest quality unit is provided. Upon receipt, 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.*

This appliance, complete with unattached items and accessories, may be delivered in one or more packages. Ensure all standard items and options have been received with each model as ordered.

Save all the information packed with the appliance. Register online at www.alto-shaam.com to ensure prompt service in the event of a warranty parts and labor claim.

This manual must be read and understood by all people using or installing the equipment model. Contact the Alto-Shaam Tech Team Service Department if you have any questions concerning installation, operation, or maintenance.

1-800-558-8744; servicedept@alto-shaam.com

SERIAL NUMBER IS REQUIRED FOR ALL INQUIRIES

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

Model: _____

Serial Number: _____

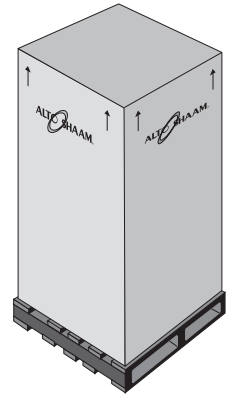
Purchased From: _____

Date Installed: _____ Voltage: _____

UNPACKING

- Carefully remove the appliance from the carton or crate.

NOTICE: Do not discard the carton and other packaging material until you have inspected the unit for hidden damage and tested it for proper operation.



- Read all instructions in this manual carefully before installing this appliance, using the appliance or performing routine maintenance. Following procedures other than those indicated in this guide to use and clean the appliance is considered inappropriate and may cause damage, injury or fatal accidents, in addition to invalidating the guarantee and relieving Alto-Shaam of all liability.
- DO NOT DISCARD THIS MANUAL.** This manual is considered part of the appliance and is provided for the owner or manager of the business and for training personnel. *Additional manuals are available from the Alto-Shaam Tech Team Service Department.*
- Remove all protective plastic film, packaging materials, and accessories from the appliance before connecting electrical power. Store any accessories in a convenient place for future use.

WARNING



Appliance and accessories may be heavy. To prevent serious injury, **ALWAYS** use a sufficient number of trained and experienced workers when moving or leveling appliance and handling accessories.

ENVIRONMENTAL CONDITIONS

- Operational Environmental Conditions
- Unit must acclimate to room temperature in the environment it is placed. 24 hours is recommended.
- Ambient temperature range of 50° to 110°F (10° to 43°C).
- Relative humidity of less than 95% non-condensation.
- Atmospheric pressure range of 50KPa to 106KPa.

SAFETY PROCEDURES AND PRECAUTIONS

- This appliance is intended to hold foods for the purpose of human consumption. No other use for this appliance is authorized or recommended.
- This appliance is intended for use in commercial establishments where all operators are familiar with the purpose, limitations, and associated hazards of this appliance. Operating instructions and warnings must be read and understood by all operators and users. We recommend regular training of your staff to avoid the risk of accident or damage to the unit. Operators must also receive regular safety instructions.
- Any trouble shooting guides, component views, and parts lists included in this manual are for general reference only and are intended for use by qualified and trained technicians.
- This manual should be considered a permanent part of this appliance. This manual and all supplied instructions, diagrams, schematics, parts lists, notices, and labels must remain with the appliance if the item is sold or moved to another location.

Knowledge of proper procedures is essential to the safe operation of electrically and/or gas energized equipment. The following hazard signal words and symbols may be used throughout this manual.

DANGER



Used to indicate the presence of a hazard that **WILL** cause severe personal injury, death, or substantial property damage if the warning included with this symbol is ignored.

WARNING



Used to indicate the presence of a hazard that **CAN** cause personal injury, possible death, or major property damage if the warning included with this symbol is ignored.

CAUTION



Used to indicate the presence of a hazard that can or will cause minor or moderate personal injury or property damage if the warning included with this symbol is ignored.

CAUTION

Used to indicate the presence of a hazard that can or will cause minor personal injury, property damage, or a potential unsafe practice if the warning included with this symbol is ignored.

NOTICE: Used to notify personnel of installation, operation, or maintenance information that is important but not hazard related.



Used to indicate that referral to operating instructions is a mandatory action. If not followed the operator could suffer personal injury.



Used to indicate that referral to operating instructions is recommended to understand operation of equipment.

NOTICE: For equipment delivered for use in any location regulated by the following directive:



DO NOT dispose of electrical or electronic equipment with other municipal waste.

ADDITIONAL SAFETY PROCEDURES AND PRECAUTIONS

- To prevent serious injury, death or property damage, your appliance should be inspected and serviced at least every twelve (12) months by an authorized service partner or trained technician.
- ONLY allow an authorized service partner or trained technician to service or to repair your appliance. Installation or repairs that are not performed by an authorized service partner or trained technician, or the use of non-factory authorized parts will void the warranty and relieve Alto-Shaam of all liability.
- When working on this appliance, observe precautions in the literature, on tags, on labels attached to or shipped with the appliance and other safety precautions that may apply.

WARNING



This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision concerning use of the appliance by person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

WARNING



If the appliance is not cleaned or is not cleaned well enough, deposits of grease and or food residues inside the appliance may catch fire. If fat deposits and/or food waste inside the appliance ignite disconnect the appliance from the main power and use a fire extinguisher (do not use water to extinguish a grease fire!). Failure to clean the appliance properly may cause fire, personal injury, death, invalidates the warranty and relieves Alto-Shaam of all liability.

WARNING



Improper installation, alteration, adjustment, service, cleaning, or maintenance could result in property damage, severe injury, or death.

READ and UNDERSTAND the installation, operating and maintenance instructions thoroughly before installing, servicing, or operating this equipment.

CAUTION



To prevent **SEVERE PERSONAL INJURY** or **PROPERTY DAMAGE**:

ALWAYS use hand protection when operating this appliance to avoid burns. Metal parts of this equipment become extremely hot when in operation.

ADDITIONAL SAFETY PROCEDURES AND PRECAUTIONS

WARNING

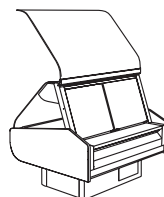


Appliance and accessories may be heavy. To prevent serious injury, **ALWAYS** use a sufficient number of trained and experienced workers when moving or leveling appliance and handling accessories.

WARNING



Hood glass extended to the full, upright portion 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.

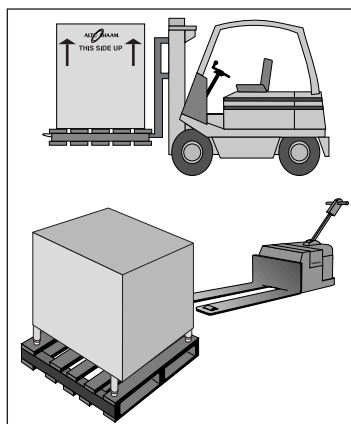


To prevent **SERIOUS INJURY** or **PROPERTY DAMAGE**: Operators should be aware of any increase in effort to lift the hood and initiate an immediate gas strut safety check. **DO NOT** lift the hood in this condition.

INSTALLATION

SITE INSTALLATION

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" (152mm) unobstructed clearance beneath the unit.



1. The appliance must be installed on a stable and level surface.
2. **DO NOT** install this appliance in any area where it may be affected by any adverse conditions such as steam, grease, dripping water, high temperatures, or any other severely adverse conditions.
3. **DO NOT** install a heated display case near a cold air source such as a freezer, air conditioning vents, or in any area where outside air fluctuation can affect performance.
4. This appliance must be kept free and clear of any obstructions blocking access for maintenance or service.

MINIMUM CLEARANCE REQUIREMENTS

Counter and table units must be mounted on legs of a sufficient 4" (102mm) or 6" (152mm) height depending on unit length 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.

A number of adjustments are associated with initial installation and start-up. It is important that these adjustments be conducted by a qualified service technician. Installation and start-up adjustments are the responsibility of the dealer or user. These adjustments include but are not limited to thermostat calibration, door adjustment, leveling, electrical hook-up and installation of optional casters or legs.

LEVELING

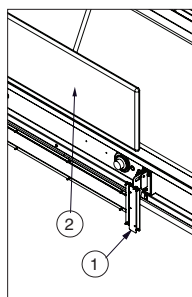


Level the appliance from side-to-side and front-to-back with the use of a spirit level.

We recommend checking the level periodically to make certain the floor has not shifted nor the appliance moved.

NOTICE: Failure to properly level this appliance can cause improper function.

Cutting board installation:

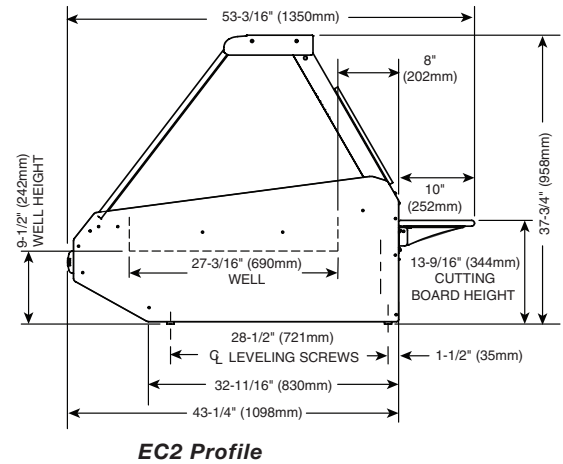
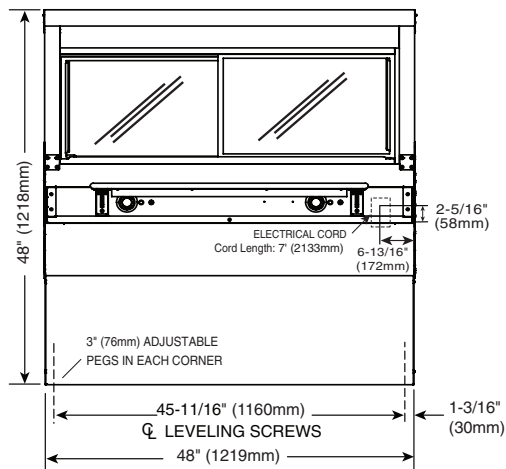


1. Place both brackets in the closed (down) position.
2. Slide cutting board back flanges down onto brackets.
3. Pivot installed board to a horizontal position and slide bracket down to lock in the open position. (NOT SHOWN)

INSTALLATION

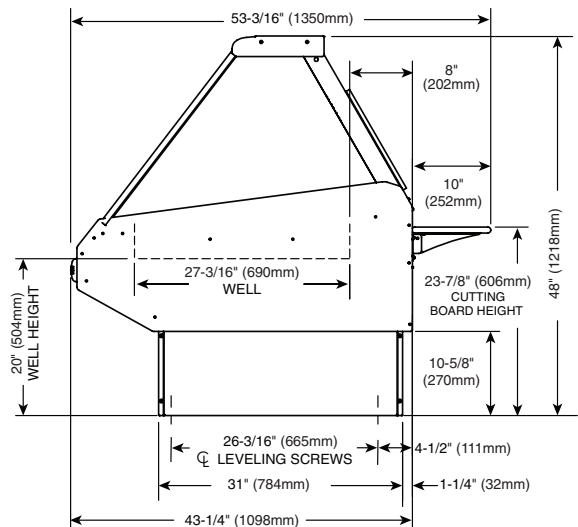
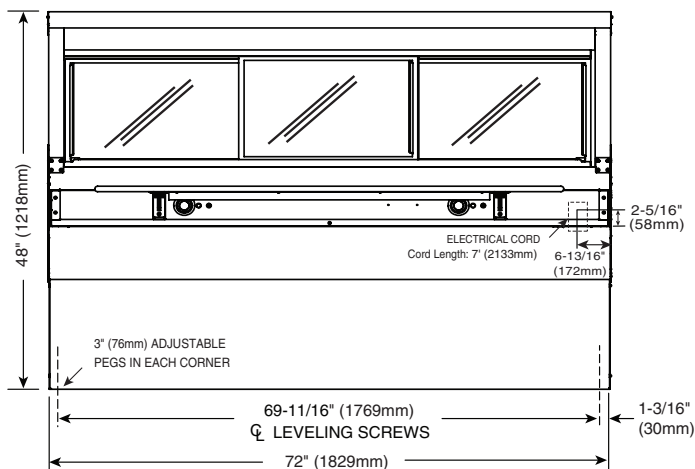
EXTERIOR DIMENSIONS - EC2 & EC2SYS SERIES (STANDARD HEIGHT)

EC2SYS-48



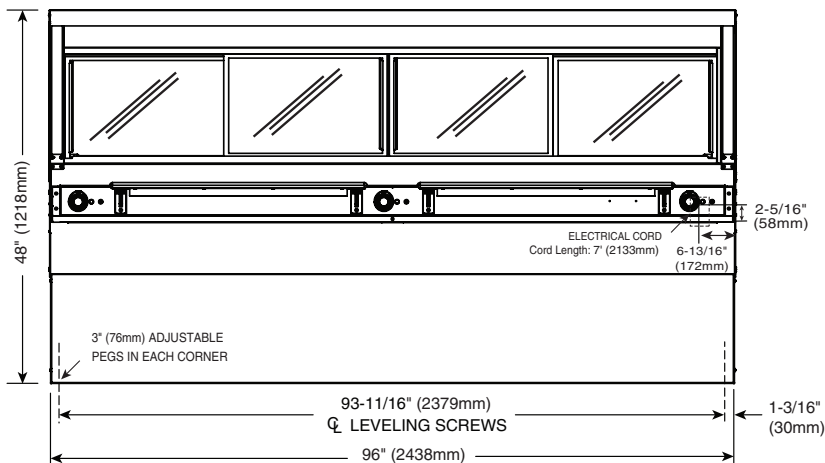
EC2 Profile

EC2SYS-72

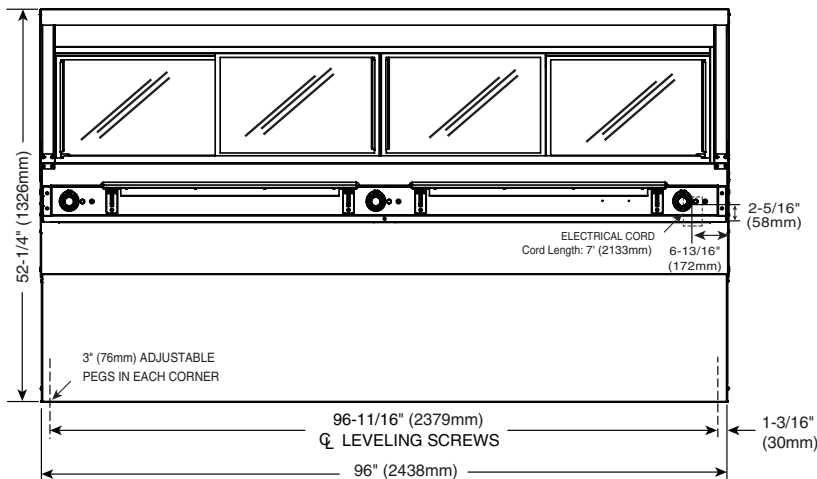
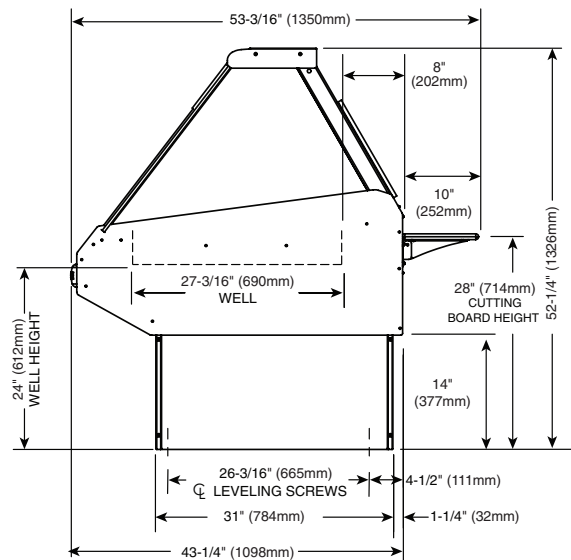
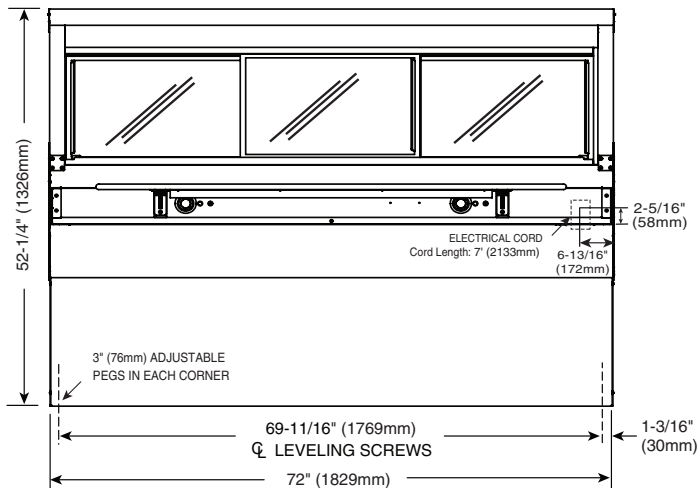
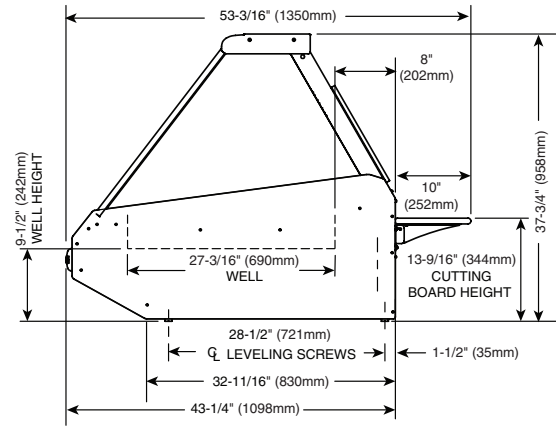
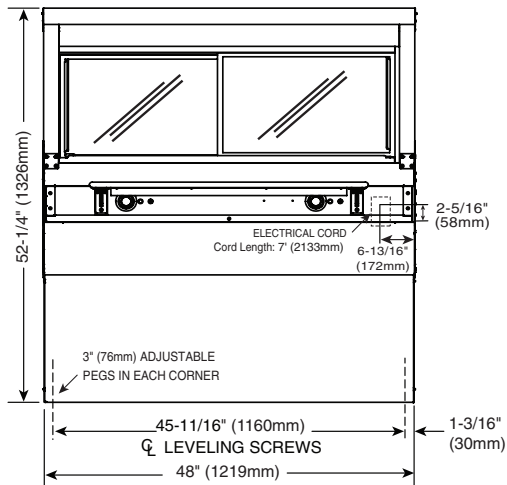


EC2SYS Profile

EC2SYS-96



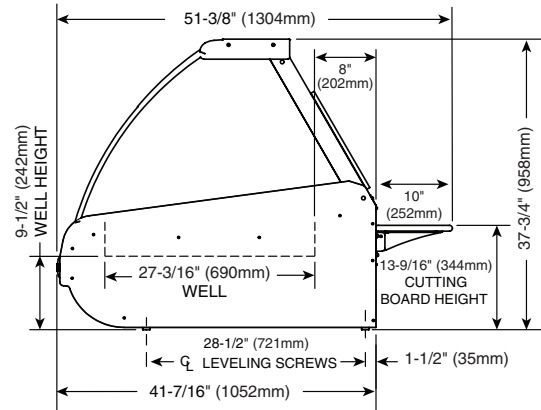
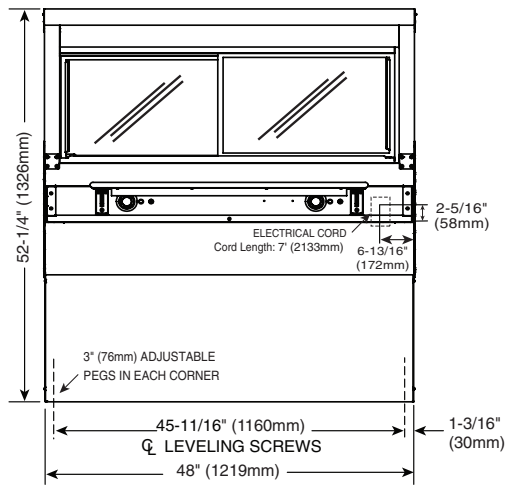
EXTERIOR DIMENSIONS - EC2 & EC2SYS SERIES (OPTIONAL HEIGHT)



INSTALLATION

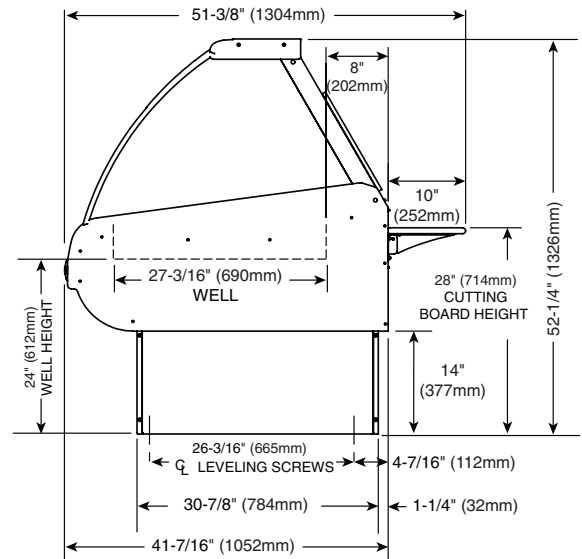
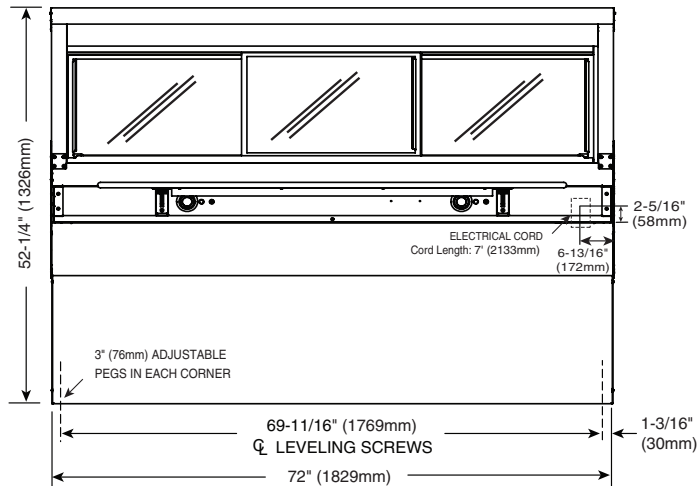
EXTERIOR DIMENSIONS - HN2 & HN2SYS SERIES (STANDARD HEIGHT)

HN2SYS-48



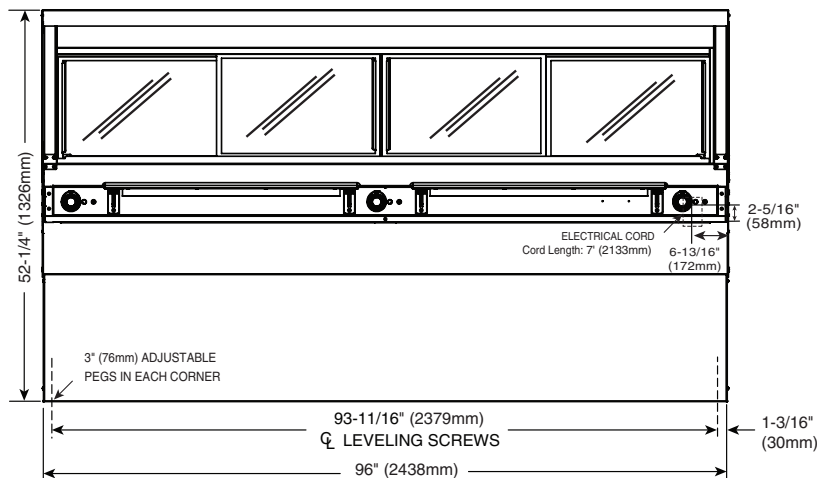
HN2 Profile

HN2SYS-72



HN2SYS Profile

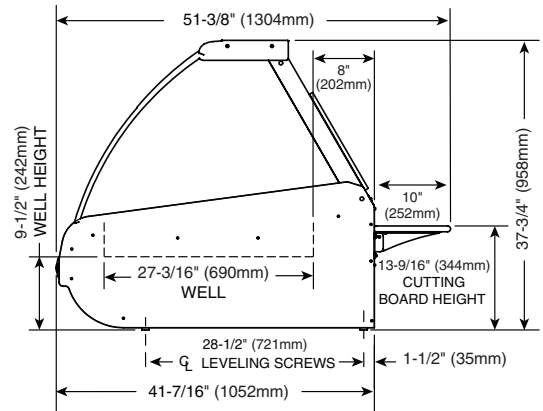
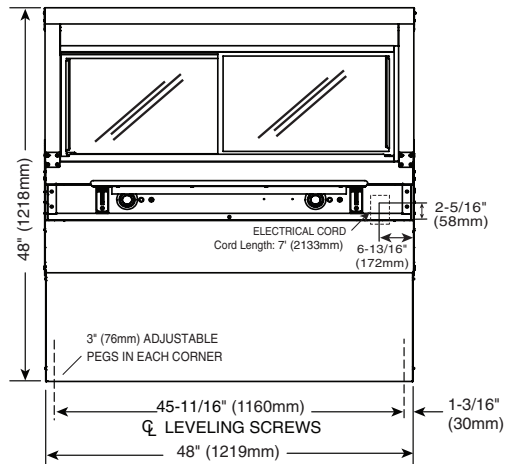
HN2SYS-96



INSTALLATION

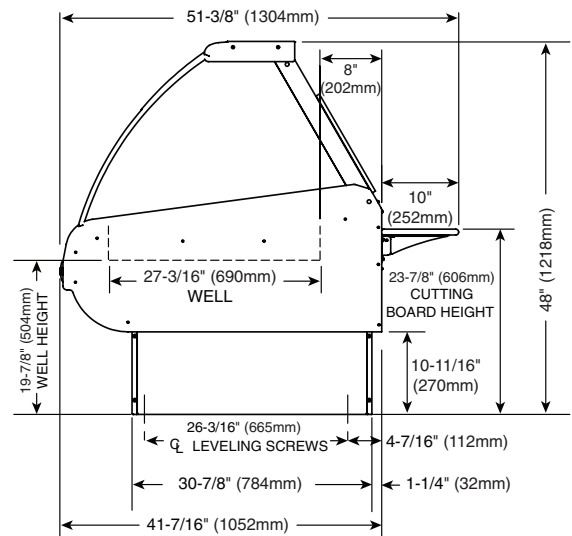
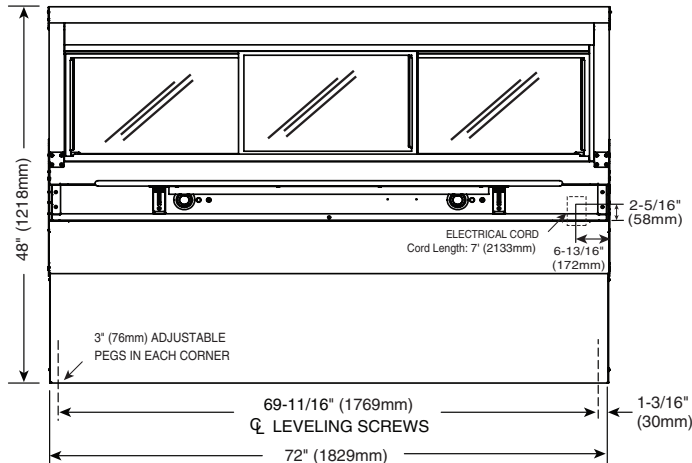
EXTERIOR DIMENSIONS - HN2 & HN2SYS SERIES (OPTIONAL HEIGHT)

HN2SYS-48



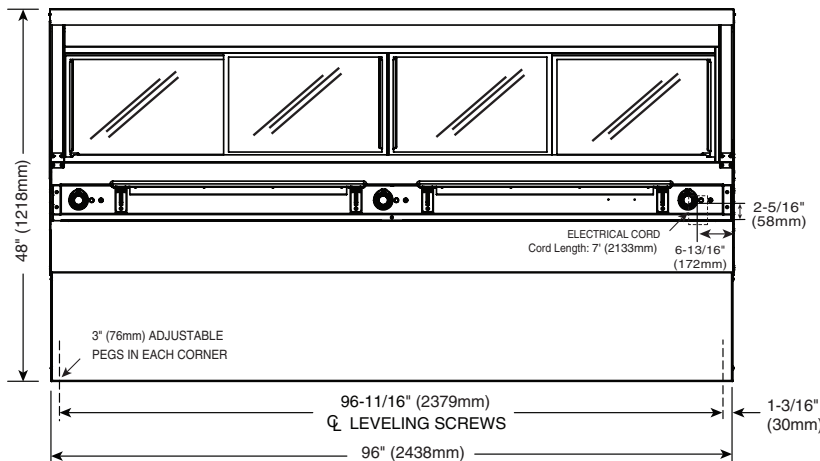
HN2 Profile

HN2SYS-72



HN2SYS Profile

HN2SYS-96



INSTALLATION

ELECTRICAL CONNECTION

DANGER



Ensure power source matches voltage identified on appliance rating tag. The rating tag provides essential technical information required for any appliance installation, maintenance or repairs. Do not remove, damage or modify the rating tag.

WARNING



To prevent **SERIOUS INJURY, DEATH, or PROPERTY DAMAGE:**

All electrical connections must be made by a qualified and trained service technician in accordance with applicable electrical codes.



This appliance **MUST** be adequately grounded in accordance with local electrical codes or, in the absence of local codes, with the current edition of the National Electrical Code ANSI/NFPA No. 70. In Canada, all electrical connections are to be made in accordance with CSA C22.1, Canadian Electrical Code Part 1 or local codes.

WARNING



To prevent **SERIOUS INJURY, DEATH or PROPERTY DAMAGE:**

All electrical connections must be made by a qualified and trained service technician in accordance with applicable electrical codes.

Plug the unit into a properly grounded receptacle **ONLY**, positioning the unit so that the plug is easily accessible in case of an emergency. Arcing will occur when connecting or disconnecting the unit unless all controls are in the "OFF" position.

REGARDING INTERNATIONAL STANDARD UNITS:

If the unit is not equipped with flexible cord and 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.



For CE approved units: To prevent an electrical shock hazard between the appliance and other appliances or metal parts in close vicinity, an equalization-bonding stud is provided. An equalization bonding lead must be connected to this stud and the other appliances/metal parts to provide sufficient protection against potential difference. The terminal is marked with the following symbol.



Hard wired models:

Hard wired models must be equipped with a country certified external allpole disconnection switch with sufficient contact separation.

If a power cord is used for the connection of the product an oil resistant cord like H05RN or H07RN or equivalent must be used.

NOTICE: Where local codes and CE regulatory requirements apply, appliances must be connected to an electrical circuit that is protected by an external GFCI outlet.

INSTALLATION

ELECTRICAL CONNECTION

Wire diagrams are located in the literature package that came with the unit.

EC2 & HN2 SERIES ELECTRICAL						
48 Series						
VOLTAGE		PHASE	CYCLE/HZ	AMPS	kW	
120/208-240		1	50/60	13.8	3.3	NEMA L14-20P 20A, 250V PLUG (COUNTERTOP & SYSTEM)
208		1	50/60	12.0	2.5	
240		1	50/60	13.8	3.3	
230		1	50/60	12.6	2.9	CEE 7/7 220-230V PLUG (COUNTERTOP & SYSTEM)
72 Series						
VOLTAGE		PHASE	CYCLE/HZ	AMPS	kW	
120/208-240		1	50/60	18.8	4.5	NEMA L14-30P 30A, 250V PLUG (COUNTERTOP & SYSTEM)
208		1	50/60	16.3	3.4	
240		1	50/60	18.8	4.5	
230		1	50/60	18.3	4.2	BARE END, NO PLUG (COUNTERTOP & SYSTEM)
380-415		3	50/60	9.2	4.4	BARE END, NO PLUG (COUNTERTOP & SYSTEM)
380		3	50/60	8.0	3.3	
415		3	50/60	9.2	4.4	
96 Series						
VOLTAGE		PHASE	CYCLE/HZ	AMPS	kW	
120/208-240		1	50/60	21.7	5.2	NEMA L14-30P 30A, 250V PLUG (COUNTERTOP & SYSTEM)
208		1	50/60	18.8	3.9	
240		1	50/60	21.7	5.2	
230		1	50/60	24.3	5.6	BARE END, NO PLUG (COUNTERTOP & SYSTEM)
380-415		3	50/60	12.5	6.0	BARE END, NO PLUG (COUNTERTOP & SYSTEM)
380		3	50/60	10.8	4.5	
415		3	50/60	12.5	6.0	

TY2 SERIES ELECTRICAL						
48 Series						
VOLTAGE		PHASE	CYCLE/HZ	AMPS	kW	
120/208-240		1	50/60	13.8	3.3	NEMA L14-20P 20A, 250V PLUG (PLUG - COUNTERTOP ONLY; TERMINAL BLOCK - SYSTEM)
208		1	50/60	12.0	2.5	
240		1	50/60	13.8	3.3	
230		1	50/60	12.6	2.9	CEE 7/7 220-230V PLUG (PLUG - COUNTERTOP ONLY; TERMINAL BLOCK - SYSTEM)
72 Series						
VOLTAGE		PHASE	CYCLE/HZ	AMPS	kW	
120/208-240		1	50/60	18.8	4.5	NEMA L14-30P 30A, 250V PLUG (PLUG - COUNTERTOP ONLY; TERMINAL BLOCK - SYSTEM)
208		1	50/60	16.3	3.4	
240		1	50/60	18.8	4.5	
230		1	50/60	18.3	4.2	BARE END, NO PLUG (COUNTERTOP ONLY) (TERMINAL BLOCK - SYSTEM)
380-415		3	50/60	9.2	4.4	BARE END, NO PLUG (COUNTERTOP ONLY) (TERMINAL BLOCK - SYSTEM)
380		3	50/60	8.0	3.3	
415		3	50/60	9.2	4.4	
96 Series						
VOLTAGE		PHASE	CYCLE/HZ	AMPS	kW	
120/208-240		1	50/60	21.7	5.2	NEMA L14-30P 30A, 250V PLUG (PLUG - COUNTERTOP ONLY; TERMINAL BLOCK - SYSTEM)
208		1	50/60	18.8	3.9	
240		1	50/60	21.7	5.2	
230		1	50/60	24.3	5.6	BARE END, NO PLUG (COUNTERTOP ONLY) (TERMINAL BLOCK - SYSTEM)
380-415		3	50/60	12.5	6.0	BARE END, NO PLUG (COUNTERTOP ONLY) (TERMINAL BLOCK - SYSTEM)
380		3	50/60	10.8	4.5	
415		3	50/60	12.5	6.0	

INSTALLATION

FACTORY INSTALLED OPTIONS

DESCRIPTION		EC2 SERIES	HN2 SERIES	TY2 SERIES
INDEPENDENT ELECTRICAL OUTLET		5001781	5001781	5001781
TEMPERATURE PROBE	48 SERIES	5004916	5004916	5004916
	72 SERIES	5004917	5004917	5004917
	96 SERIES	5004918	5004918	5004918

ACCESSORIES

DESCRIPTION		EC2 SERIES	HN2 SERIES	TY2 SERIES
BUTTING KIT, COUNTERTOP		5015253	5009003	5015250
BUTTING KIT, SYSTEM		5009004	5009003	5009001
CARVING STATION		—	—	5001874
PAN GRID, SELF SERVICE		PN-25752	PN-25752	PN-25752
PAN INSERT, SELF SERVICE 4" (102mm) DEEP	48 SERIES	1001990	1001990	1001990
	72 SERIES	1001991	1001991	1001991
PLATFORM SCALE		55265	55265	55265
SHEET PAN DIVIDER BAR PACKAGE (DOMESTIC)	-48, -48/P	5002802	5002802	5002802
	-72, -72/P	5002803	5002803	5002803
	-72/PL, -72/PR	5002804	5002804	5002804
	-96	5002805	5002805	5002805
	-96/PL, -96/PR	5002806	5002806	5002806
SHEET PAN DIVIDER BAR PACKAGE (INTERNATIONAL)	48 SERIES	5009135	5009135	5009135
	72 SERIES	5009136	5009136	5009136
	96 SERIES	5009137	5009137	5009137
THERMOSTAT GUARD COVER PLATE		5007660	5007660	5007660
WORK SHELF WITH GRAVY LANE	48 SERIES	5005638	5005638	5005638
	72 SERIES	5005639	5005639	5005639
	96 SERIES	5005640	5005640	5005640

OPERATING INSTRUCTIONS

START-UP OPERATION

BEFORE INITIAL USE:

Interior display case surfaces must be heated to remove surface oils and the accompanying odor produced during the first use of the appliance.

Remove pans. Turn thermostats to the "ON" position. Set thermostats to the **10** setting. Allow the unit to heat for 30 minutes or until no odor is detected.

PREHEATING:

The unit should be preheated at the 10 setting for a minimum of 30-45 minutes before loading the case with hot food. Follow the operating instructions indicated on the next page of this manual.

OPERATING INSTRUCTIONS

OPERATING PROCEDURES

1. DO NOT ADD WATER TO 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 display case. As a matter of fact, **adding water is not recommended** since water will accelerate the deterioration of the product, and will damage the unit voiding 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 VERY 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 will escape from the bottom of the case into the display area. As a consequence, heat distribution will be uneven and uniform temperature will be difficult to hold. If needed, additional pan divider bars are available. The supplied self-serve pan inserts with wire grids are for use with pre-packaged foods in the self-serve sections of the units.

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

A 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 10 setting for a minimum of 30-45 minutes before loading the case with hot 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 DISPLAY CASE

Be certain only hot food is transferred into the display 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 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. RESET THERMOSTAT(S) AS NEEDED

After all products are loaded into the display case and the doors are closed, it is necessary to reset the thermostat(s). For fully enclosed sections, reset the thermostat to the number "8" setting. Cases with a self-service section should be maintained between number "9" and number "10" for 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 pocket thermometer to check each item to make certain the correct temperatures are being maintained. Proper temperature range is between a minimum of 140° and 160°F (60° and 71°C). Normally, this will require a thermostat setting of between number "6" and "8" in fully enclosed cases. Self-service cases or sections will always require a higher thermostat setting.

6. PLACEMENT OF FOOD PROBE

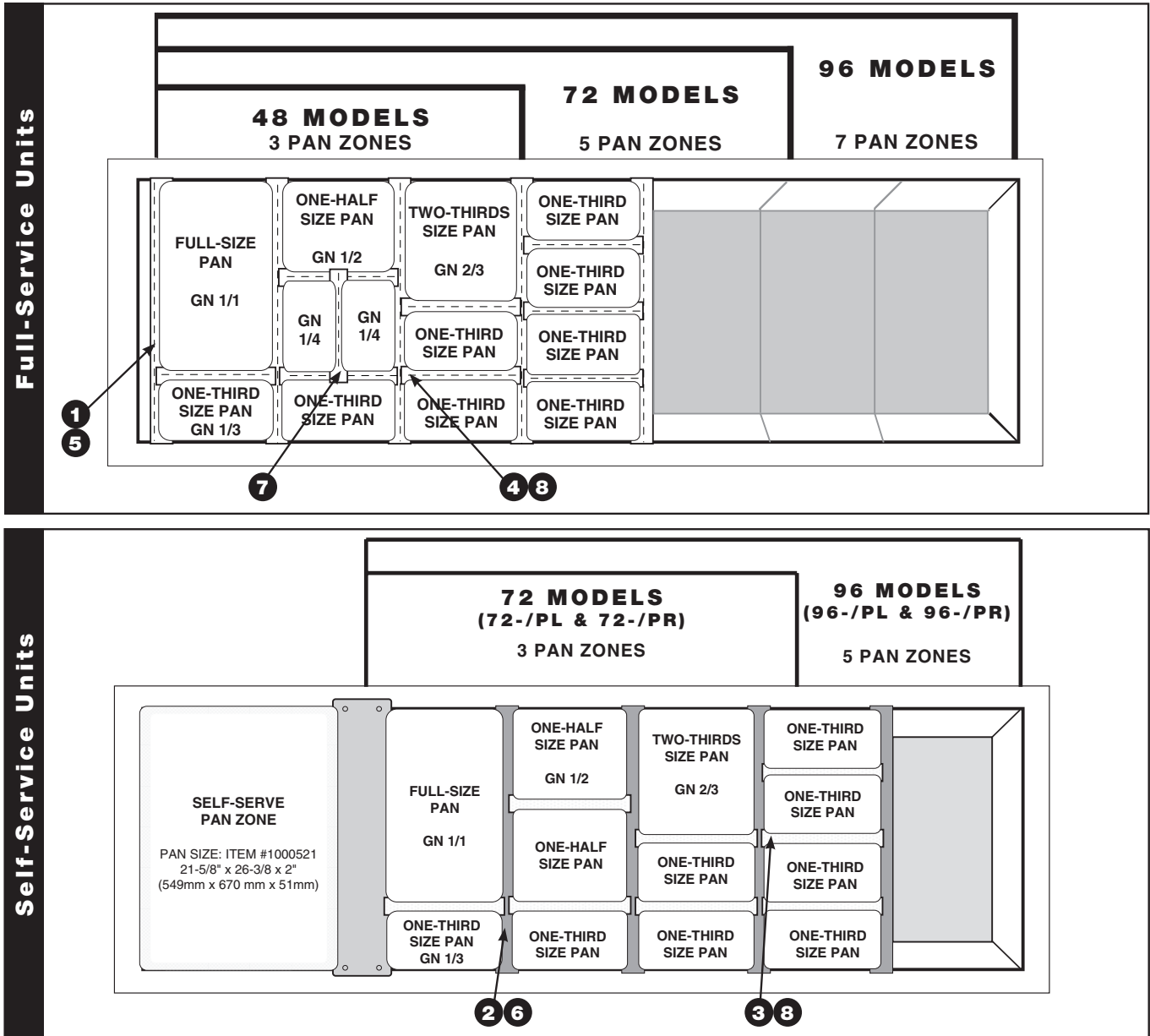
If the unit is equipped with the probe accessory, wipe each probe and probe tip with a disposable alcohol pad to clean and sanitize before using. If the probe is left in its bracket, the LED temperature display will indicate the ambient air temperature inside the case. To place a probe into food kept 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 sides. 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, and return each probe to the proper bracket position.

7. SERVE FRESH HOT FOOD

Keep hot foods looking fresh. Occasionally stir or rotate food as needed. Serve food products in appropriate heat tested packages or containers. Keep display case doors closed after serving. Wipe spills immediately to assure maximum eye appeal and to ease end of the day cleanup.

OPERATING INSTRUCTIONS

PAN CONFIGURATIONS • HEATED DISPLAY CASES



STANDARD BARS INCLUDED IN EACH PACKAGE											
			MODEL >		48		72		96		
PART NO.	DESCRIPTION	DIMENSIONS (W x L)			FULL	SELF	FULL	SELF	FULL	SELF	
DOMESTIC PACKAGES											
①	1002584	LONG (FULL, HALF, & THIRD SIZE)	2-1/2" x 28" (64mm x 711mm)			4	—	4	2	—	—
②	1002590	LONG (FULL, HALF, & THIRD SIZE)	1-3/16" x 28" (46mm x 711mm)			—	—	—	—	6	6
③	1002621	SHORT (FULL, HALF, & THIRD SIZE)	1-15/32" x 13-1/2" (37mm x 343mm)			3	—	5	3	7	7
④	11318	SHORT (FULL, HALF, & THIRD SIZE)	1" x 13-1/2" (25mm x 343mm)			9	—	15	9	21	21
INTERNATIONAL PACKAGES											
⑤	1002585	LONG (GN 1/1, GN 1/2, & GN 1/3)	58mm x 711mm			4	—	10	6	—	—
⑥	1002591	LONG (GN 1/1, GN 1/2, & GN 1/3)	41mm x 711mm			—	—	—	—	6	6
⑦	1002619	SHORT (GN 1/4)	25mm x 270mm			6	—	10	6	14	14
⑧	1000544	SHORT (GN 1/1, GN 1/2, & GN 1/3)	25mm x 327mm			9	—	15	9	21	21

OPERATING INSTRUCTIONS

GENERAL HOLDING GUIDELINES

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.

When product is removed from a high temperature cooking environment for immediate transfer into equipment with the lower temperature required for hot food holding, condensation can form on the outside of the product and on the inside of plastic containers used in self-service applications. Allowing the product to release the initial steam and heat produced by high temperature cooking can alleviate this condition. To preserve the safety and quality of freshly cooked foods however, a maximum of 1 to 2 minutes must be the only time period allowed for the initial heat to be released from the product.

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	130°F	54°C
BEEF ROAST — Med/Well Done	155°F	68°C
BEEF BRISKET	160°F — 175°F	71°C — 79°C
CORN BEEF	160°F — 175°F	71°C — 79°C
PASTRAMI	160°F — 175°F	71°C — 79°C
PRIME RIB — Rare	130°F	54°C
STEAKS — Broiled/Fried	140°F — 160°F	60°C — 71°C
RIBS — Beef or Pork	160°F	71°C
VEAL	160°F — 175°F	71°C — 79°C
HAM	160°F — 175°F	71°C — 79°C
PORK	160°F — 175°F	71°C — 79°C
LAMB	160°F — 175°F	71°C — 79°C
POULTRY		
CHICKEN — Fried/Baked	160°F — 175°F	71°C — 79°C
DUCK	160°F — 175°F	71°C — 79°C
TURKEY	160°F — 175°F	71°C — 79°C
GENERAL	160°F — 175°F	71°C — 79°C
FISH/SEAFOOD		
FISH — Baked/Fried	160°F — 175°F	71°C — 79°C
LOBSTER	160°F — 175°F	71°C — 79°C
SHRIMP — Fried	160°F — 175°F	71°C — 79°C
BAKED GOODS		
BREADS/ROLLS	120°F — 140°F	49°C — 60°C
MISCELLANEOUS		
CASSEROLES	160°F — 175°F	71°C — 79°C
DOUGH — Proofing	80°F — 100°F	27°C — 38°C
EGGS — Fried	150°F — 160°F	66°C — 71°C
FROZEN ENTREES	160°F — 175°F	71°C — 79°C
HORS D'OEUVRES	160°F — 180°F	71°C — 82°C
PASTA	160°F — 180°F	71°C — 82°C
PIZZA	160°F — 180°F	71°C — 82°C
POTATOES	180°F	82°C
PLATED MEALS	140°F — 165°F	60°C — 74°C
SAUCES	140°F — 200°F	60°C — 93°C
SOUP	140°F — 200°F	60°C — 93°C
VEGETABLES	160°F — 175°F	71°C — 79°C
THE HOLDING TEMPERATURES LISTED ARE SUGGESTED GUIDELINES ONLY. ALL FOOD HOLDING SHOULD BE BASED ON INTERNAL PRODUCT TEMPERATURES. ALWAYS FOLLOW LOCAL HEALTH (HYGIENE) REGULATIONS FOR ALL INTERNAL TEMPERATURE REQUIREMENTS.		

CARE AND CLEANING

CLEANING AND PREVENTATIVE MAINTENANCE

PROTECTING STAINLESS STEEL SURFACES



It is important to guard against corrosion in the care of stainless steel surfaces. Harsh, corrosive, or inappropriate chemicals can completely destroy the protective surface layer of stainless steel. Abrasive pads, steel wool, or metal implements will abrade surfaces causing damage to this protective coating and will eventually result in areas of corrosion. Even water, particularly hard water that contains high to moderate concentrations of chloride, will cause oxidation and pitting that result in rust and corrosion. In addition, many acidic foods spilled and left to remain on metal surfaces are contributing factors that will corrode surfaces.

Proper cleaning agents, materials, and methods are vital to maintaining the appearance and life of this appliance. Spilled foods should be removed and the area wiped as soon as possible but at the very least, a minimum of once a day. Always thoroughly rinse surfaces after using a cleaning agent and wipe standing water as quickly as possible after rinsing.

CLEANING AGENTS

Use non-abrasive cleaning products designed for use on stainless steel surfaces. Cleaning agents must be chloride-free compounds and must not contain quaternary salts. Never use hydrochloric acid (muriatic acid) on stainless steel surfaces. Always use the proper cleaning agent at the manufacturer's recommended strength. Contact your local cleaning supplier for product recommendations.

CLEANING MATERIALS

The cleaning function can usually be accomplished with the proper cleaning agent and a soft, clean cloth. When more aggressive methods must be employed, use a non-abrasive scouring pad on difficult areas and make certain to scrub with the visible grain of surface metal to avoid surface scratches. Never use wire brushes, metal scouring pads, or scrapers to remove food residue.

CAUTION



To protect stainless steel surfaces, completely avoid the use of abrasive cleaning compounds, chloride based cleaners, or cleaners containing quaternary salts. **NEVER** use hydrochloric acid (muriatic acid) on stainless steel. **NEVER** use wire brushes, metal scouring pads or scrapers.

WARNING



If the appliance is not cleaned or is not cleaned well enough, deposits of grease and or food residues inside the appliance may catch fire. If fat deposits and/or food waste inside the appliance ignite disconnect the appliance from the main power and use a fire extinguisher (do not use water to extinguish a grease fire!). Failure to clean the appliance properly may cause fire, personal injury, death, invalidates the warranty and relieves Alto-Shaam of all liability.

CARE AND CLEANING

PREVENTATIVE MAINTENANCE CHECKLIST

SERIAL NUMBER IS REQUIRED FOR ALL INQUIRIES

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

Company: _____

Model: _____

Serial Number: _____

Purchased From: _____

Date Installed: _____ Voltage: _____

Inspection Date: _____

DAILY CHECK LIST:

- ☐ Clean the display case and glass as detailed in this manual.

WEEKLY CHECK LIST:

- ☐ Tighten and inspect light bulbs.

MONTHLY CHECK LIST:

- ☐ Inspect end and front glass pieces for any signs of chips and cracks.
 - ☐ Schedule service immediately if a crack or chip is noted.
- ☐ Test gas struts (full service cases only).
 - ☐ Lift the front glass fully.
 - ☐ Ensure glass remains suspended without dropping back down.
 - ☐ If struts are not holding the glass in an upright position, schedule service as soon as possible.

COMPONENT FAILURE & REPLACEMENT

List details of the failure(s) with the date they occurred. (Leave blank if components are working properly)

Component: _____	Date (MM/DD/YY): _____
Component: _____	Date (MM/DD/YY): _____
Component: _____	Date (MM/DD/YY): _____
Component: _____	Date (MM/DD/YY): _____
Component: _____	Date (MM/DD/YY): _____
Component: _____	Date (MM/DD/YY): _____
Component: _____	Date (MM/DD/YY): _____

CARE AND CLEANING

PREVENTATIVE MAINTENANCE CHECKLIST

SERIAL NUMBER IS REQUIRED FOR ALL INQUIRIES

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

Company: _____

Model: _____

Serial Number: _____

Purchased From: _____

Date Installed: _____ Voltage: _____

Inspection Date: _____

EVERY 12 MONTHS CHECK LIST:

Inspection by a factory authorized technician.

- ☐ Open control panel and inspect/tighten all wiring.
- ☐ Inspect all electrical components.
- ☐ Test elements for electrical short to ground. Replace/repair as needed.
- ☐ Remove top cover and inspect light wiring and light receptacles. Repair/replace as needed.
- ☐ Visually inspect the well and the well surface for any indications of cracking, deterioration, distortion or misuse.
- ☐ Replace end glass gasket.
- ☐ Inspect handle gasket. Replace as needed.
- ☐ Replace sliding glass door gaskets.
- ☐ Inspect glass alignment.
- ☐ Inspect glass clamp and glass position in clamp. Tighten/replace as needed.
- ☐ Inspect any customer bumper material. Replace as needed.
- ☐ Perform thermostat calibration based on factory recommended procedures.

COMPONENT FAILURE & REPLACEMENT

Note any component failure(s) that was discovered during this twelve month inspection.
(Leave blank if components are working properly)

CARE AND CLEANING

DANGER

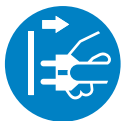


To prevent **SERIOUS PERSONAL INJURY, DEATH, or PROPERTY DAMAGE**:

DO NOT steam clean, hose down or flood the interior or exterior with water or liquid solution of any kind. **DO NOT** use water jet to clean.

Failure to observe this precaution will void the warranty.

WARNING

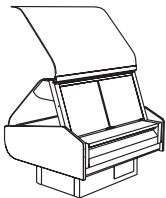


To prevent **SERIOUS INJURY, DEATH, OR PROPERTY DAMAGE**, **ALWAYS** disconnect unit from power source before cleaning or servicing.

WARNING



Hood glass extended to the full, upright portion 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.



To prevent **SERIOUS INJURY or PROPERTY DAMAGE**: Operators should be aware of any increase in effort to lift the hood and initiate an immediate gas strut safety check. **DO NOT** lift the hood in this condition.

DO NOT USE APPLIANCE IF CONTROLS ARE NOT FUNCTIONING PROPERLY

Refer to the Troubleshooting Guide located in this manual or call an authorized service technician.

CLEAN DAILY

- A. Turn lights and adjustable thermostat(s) to the "OFF" position, disconnect unit from power source and let cool.
- B. Remove, cover or wrap, and refrigerate food.
- C. Clean the interior metal surfaces of the display case with a damp clean cloth or sponge and any good commercial detergent or grease solvent at the recommended strength. Use a plastic scouring pad or oven cleaner for difficult areas. Rinse well to remove all residue and wipe dry.

NOTICE: Never use abrasive cleaning compounds, chloride based cleaners, or cleaners containing quaternary salts. Never use hydrochloric acid (muriatic acid) on stainless steel.

- D. Spray heavily soiled areas with a water soluble degreaser and let stand for 10 minutes, then remove soil with a plastic scouring pad.
- E. Clean the glass with a window cleaner. The sliding glass doors are removable allowing for easier cleaning.
- F. Wipe gaskets, control panel and knobs thoroughly since these areas harbor food debris.
- G. Clean the tracks thoroughly to remove build-up of debris.
- H. 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.

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

CLEAN THE PROBES DAILY

If the display case is supplied with probes, 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.



FOOD SAFETY

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.

Most food imparts its own particular aroma and many foods also absorb existing odors. Unfortunately, during this absorption there is not a 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 ensure 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 ensure 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 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.

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. A quality thermometer is an effective tool for this purpose, and should be routinely used on all products that require holding at a specific temperature.

INTERNAL FOOD PRODUCT TEMPERATURES		
HOT FOODS		
DANGER ZONE	40°F TO 140°F	(4°C TO 60°C)
CRITICAL ZONE	70°F TO 120°F	(21°C TO 49°C)
SAFE ZONE	140°F TO 165°F	(60°C 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°F TO 32°F	(-18°C TO 0°C)
SAFE ZONE	0°F or below	(-18°C or below)

Hazard Analysis (at) Critical Control Points (HACCP), is a quality control program of operating procedures to assure food integrity, quality, and safety. Taking steps necessary to augment food safety practices is both cost effective and relatively simple. Additional HACCP information is available by contacting:

*Center for Food Safety and Applied Nutrition
Food and Drug Administration
PHONE: 1-888-SAFEFOOD
www.foodsafety.gov*

CABLE REPLACEMENT KITS

48 SERIES CABLE REPLACEMENT KIT

CABLE HEATING SERVICE KIT NO. 4880

INCLUDES:

CB-3045	CABLE HEATING ELEMENT.....	134 FEET
CR-3226	RING CONNECTOR	4
IN-3488	INSULATION CORNER.....	1 FOOT
BU-3105	SHOULDER BUSHING	4
BU-3106	CUP BUSHING	4
SL-3063	INSULATING SLEEVE	4
TA-3540	HIGH TEMPERATURE TAPE	1 ROLL
ST-2439	STUD, 10/32	4
NU-2215	HEX NUT.....	8

WARNING



To prevent **SERIOUS INJURY, DEATH, OR PROPERTY DAMAGE**, **ALWAYS** disconnect unit from power source before cleaning or servicing.

72 SERIES CABLE REPLACEMENT KIT

CABLE HEATING SERVICE KIT NO. 4881

INCLUDES:

CB-3045	CABLE HEATING ELEMENT.....	210 FEET
CR-3226	RING CONNECTOR	12
IN-3488	INSULATION CORNER.....	1 FOOT
BU-3105	SHOULDER BUSHING	12
BU-3106	CUP BUSHING	12
SL-3063	INSULATING SLEEVE	12
TA-3540	HIGH TEMPERATURE TAPE	1 ROLL
ST-2439	STUD, 10/32	12
NU-2215	HEX NUT.....	24

CAUTION



The performance of this unit 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 may cause damage to the bulb filament.

96 SERIES CABLE REPLACEMENT KIT

CABLE HEATING SERVICE KIT NO. 14228

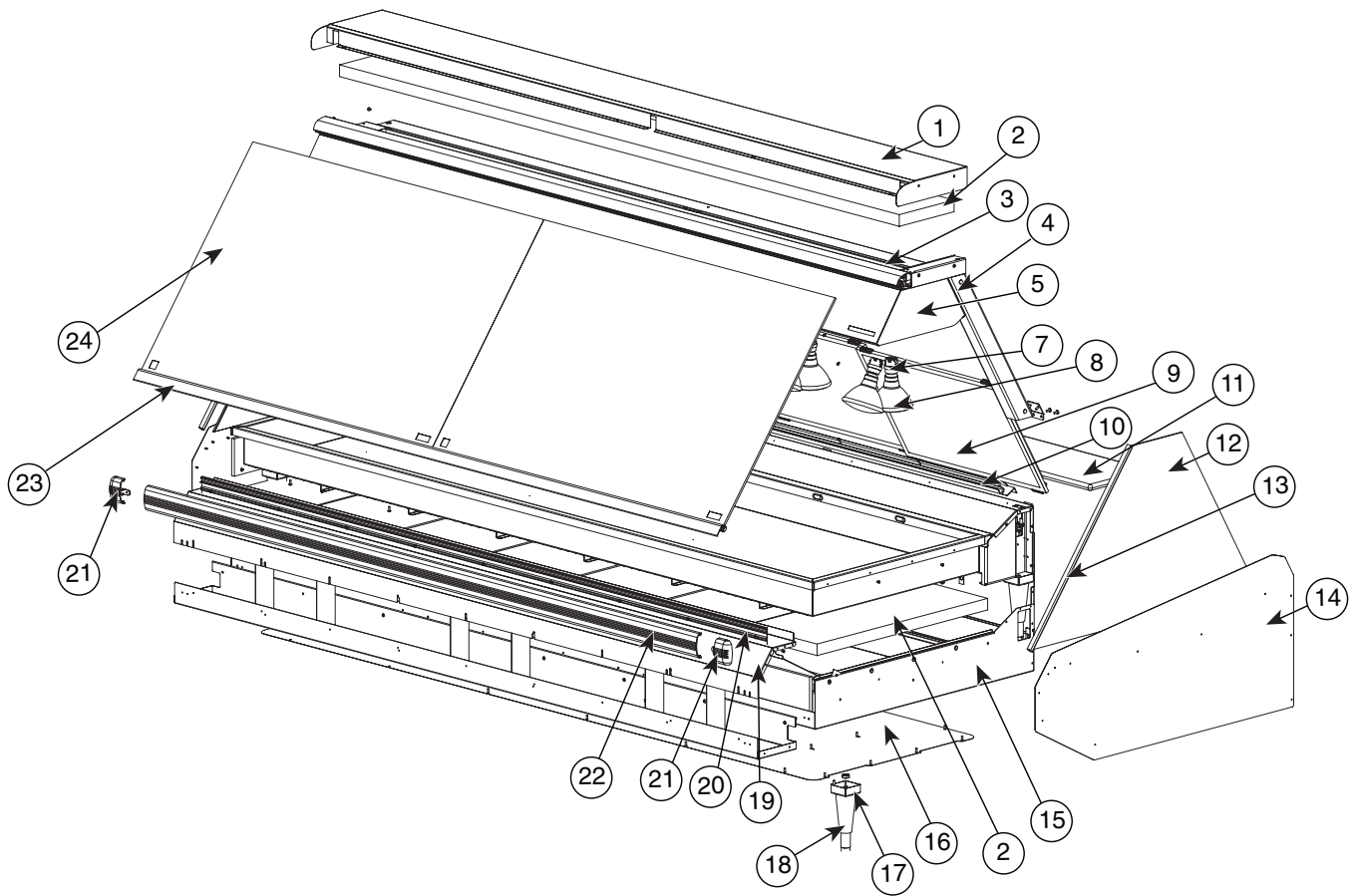
INCLUDES:

CB-3045	CABLE HEATING ELEMENT.....	280 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	HIGH TEMPERATURE TAPE	1 ROLL
ST-2439	STUD, 10/32	8
NU-2215	HEX NUT.....	16

Part numbers and drawings are subject to change without notice.

SERVICE

EC2(SYS) SERIES - COUNTERTOP ASSEMBLY (EC2-96 SHOWN)



Part numbers and drawings are subject to change without notice.

EC2(SYS) SERIES - COUNTERTOP ASSEMBLY (PARTS LIST)

MODEL >		EC2(SYS)-48		EC2(SYS)-72		EC2(SYS)-96	
ITEM	DESCRIPTION	PART NO.	QTY	PART NO.	QTY	PART NO.	QTY
1	OUTER TOP	1004351	1	1004352	1	1004353	1
2	INSULATION	IN-22364	1	IN-22364	1	IN-22364	1
3	CLAMP ASSEMBLY	CM-24682	1	CM-24686	1	CM-26588	1
4	HINGE KIT	HG-28545	1	HG-28545	1	HG-28545	1
5	INNER TOP	5003445	1	5003446	1	5003449	1
6	DOOR TRACK, UPPER	TK-26752	1	TK-26754	1	TK-26756	1
7	LAMP RECEPTACLE	120V/208-240V	6	RP-3952	10	RP-3952	14
	230V	RP-3955	6	RP-3955	10	RP-3955	14
8	BULB	120V/208-240V	6	LP-33592	10	LP-33592	14
	230V	LP-33783	6	LP-33783	10	LP-33783	14
9	DOOR GLASS	LEFT-HAND	1	DR-25422	1	DR-25422	1
	MIDDLE	DR-25423	1	DR-25423	1	DR-25423	2
	RIGHT-HAND	—	—	DR-25424	1	DR-25424	1
10	DOOR TRACK, BOTTOM	TK-26751	1	TK-26753	1	TK-26755	1
11	CUTTING BOARD	4ft (1.22m)	1	—	—	4016	2
	6ft (1.83m)	—	—	4017	1	—	—
	CUTTING BOARD BRACKET, SPACER	BT-2342*	2	BT-2342*	2	BT-2342*	2
	BRACKET, CUTTING BOARD	11283*	2	11283*	2	11283*	2
12	END GLASS	CLEAR	2	GL-25963	2	GL-25963	2
	SOLAR BRONZE (LH)	GL-24167	1	GL-24167	1	GL-24167	1
	SOLAR BRONZE (RH)	GL-24166	1	GL-24166	1	GL-24166	1
13	GASKET, END GLASS	GS-22547	2	GS-22547	2	GS-22547	2
14	END PANEL	BLACK (RH/LH)	2	1005704	2	1005704	2
	CUSTOMER SIDE, STAINLESS STEEL (RH)	1005861	1	1005861	1	1005861	1
	CUSTOMER SIDE, STAINLESS STEEL (LH)	1005860	1	1005860	1	1005860	1
	CUSTOM COLOR	1005865	2	1005865	2	1005865	2
15	ELEMENT KIT	4880	1	4881	1	14228	1
16	ACCESS PANEL	1000620	1	1001264	1	1001469	1
17	LEG BRACE WELD	5003365	4	5003365	4	5003365	6
18	LEGS	6" (152mm)	4	LG-22341	4	LG-22341	6
19	FRONT PANEL, LOWER	BLACK	1	1005637	1	1005638	1
	STAINLESS STEEL	1005639	1	1005640	1	1005641	1
	CUSTOM COLOR	1005862	1	1005863	1	1005864	1
20	BUMPER, INNER	4ft (1.22m)	1	—	—	—	—
	6ft (1.83m)	—	—	1010953	1	—	—
	8ft (2.44m)	—	—	—	—	1010954	1
21	BUMPER, END CAP	BM-29064	2	BM-29064	2	BM-29064	2
22	BUMPER, OUTER	1010949	1	1010950	1	1010951	1
23	HANDLE	HD-24688	1	HD-24689	1	HD-26589	1
24	FRONT GLASS**	GL-24165	1	GL-24612	1	GL-24165	2
25*	STRUT	500N	2	SU-24829	2	—	—
	800N	—	—	SU-24830	1	SU-24830	3
26*	LIGHT CHANNEL	1004357	1	1004358		1010325	1

* NOT SHOWN

** Standard parts listed, see next page for optional parts.

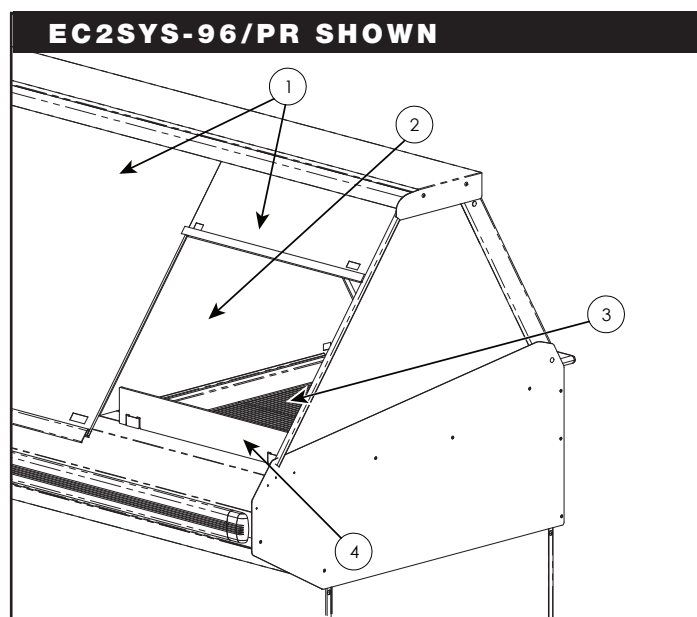
Part numbers and drawings are subject to change without notice.

SERVICE

EC2(SYS) SERIES - SUBSTITUTE PARTS FOR SELF-SERVE UNITS

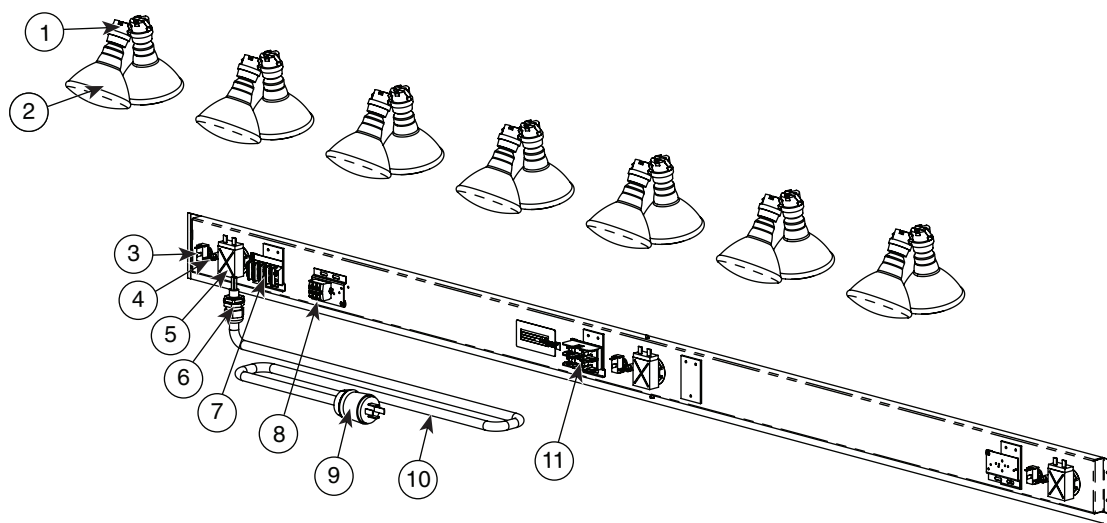
MODEL >			EC2(SYS)	-48/P	-72/P	-72/PL, /PR	-96/PL, /PR
ITEM	DESCRIPTION		PART NO.	QTY	QTY	QTY	QTY
1	GLASS FRONT	FULL-SERVE	GL-24165	—	1	1	—
			GL-24612	—	—	—	1
		SELF-SERVE	GL-25742	1	—	—	—
			GL-25739	—	1	—	—
			GL-25315	—	—	1	1
2	TEMPERED GLASS DIVIDER		GL-25314	—	—	1	1
3	PAN GRIDS		PN-25752	2	3	1	1
4	PAN INSERT		1000993	1	—	—	—
			1000735	—	1	—	—
			1000521	—	—	1	1
5	GUARD, HEAT ASSEMBLY		5013006	1	—	—	—
		PLEXI GUARD ONLY	GD-29442	1	—	—	—
			5013007	—	1	—	—
		PLEXI GUARD ONLY	GD-29444	—	1	—	—
			5013008	—	—	1	1
		PLEXI GUARD ONLY	GD-29446	—	—	1	1
6*	DIVIDER GLASS SUPPORT		5002164	—	—	1	—
			5002165	—	—	—	1
7*	GUARD, HEAT (PRIOR TO 01/11)		GD-25577	1	—	—	—
			GD-25899	—	1	—	—
			GD-24852	—	—	1	1
8*	HOLDER, HEAT GUARD (PRIOR TO 01/11)		1000734	1	—	—	—
			1002065	—	1	—	—
			1001455	—	—	1	1
9*	STRUT, GAS	500N	SU-24829	—	2	2	2
		800N	SU-24830	—	—	1	1

* NOT SHOWN



Part numbers and drawings are subject to change without notice.

EC2(SYS) SERIES - ELECTRICAL ASSEMBLY (EC2-96 SHOWN)



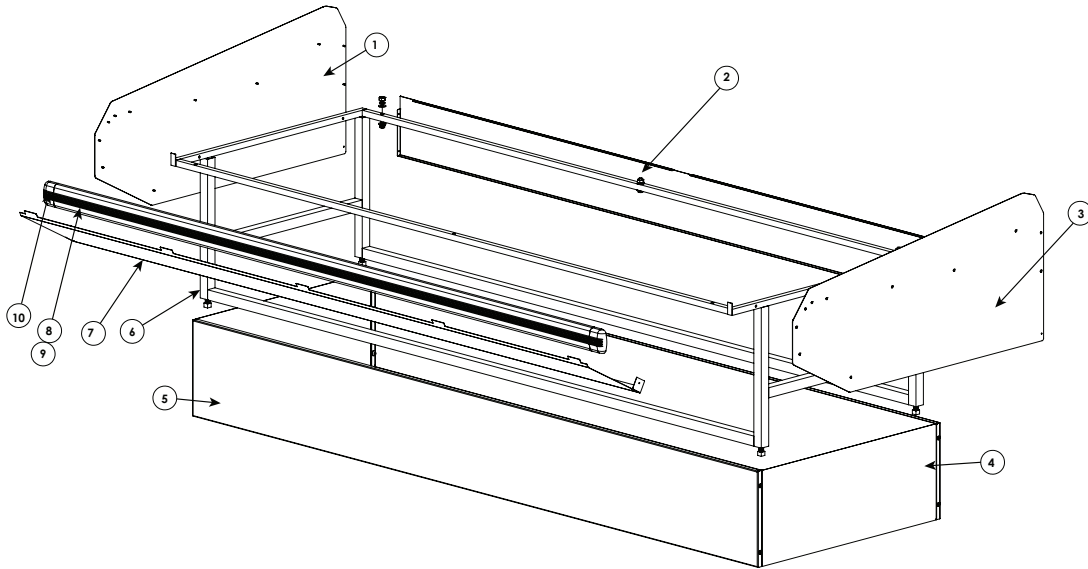
MODEL >			EC2(SYS)-48		EC2(SYS)-72		EC2(SYS)-96	
ITEM	DESCRIPTION		PART NO.	QTY	PART NO.	QTY	PART NO.	QTY
1	LAMP RECEPTACLE	120V/208-240V	RP-3952	6	RP-3952	10	RP-3952	14
		230V	RP-3955	6	RP-3955	10	RP-3955	14
2	BULB	120V	LP-33592	6	LP-33592	10	LP-33592	14
		230V	LP-33783	6	LP-33783	10	LP-33783	14
3	SWITCH, TOGGLE	120V/208-240V	SW-33896	2	SW-33896	2	SW-33896	3
		230V	SW-3528	2	SW-3528	2	SW-3528	3
	SWITCH, BOOT	230V	SW-3905	2	SW-3905	2	SW-3905	3
4	INDICATOR LIGHT	120V/208-240V	LI-3951	2	LI-3027	2	LI-3027	3
		230V	LI-3951	2	LI-3951	2	LI-3951	3
5	THERMOSTAT		TT-3498	2	TT-3498	2	TT-3498	3
6	BUSHING, STRAIN RELIEF		BU-34717	1	BU-34717	1	BU-33505	1
7	TERMINAL BLOCK	120V/208-240V	—	—	BK-3021	1	BK-3021	1
		230V	BK-3021	1	BK-3021	1	BK-3021	1
		380-415V	—	—	BK-3021	1	BK-3021	1
8	TERMINAL BLOCK, MODULAR	120V/208-240V	BK-25432	1	BK-25432	1	BK-25432	1
		230V	—	—	—	—	BK-25432	1
		380-415V	—	—	BK-25432	1	BK-25432	1
9	PLUG	NEMA L14-20P, 20A 250	PG-3337	1	—	—	—	—
		NEMA L14-30P, 30A 250	—	—	PG-3267	1	PG-3267	1
10	CORD 7' (2.13m)	120V	CD-3291	1	CD-3557	1	CD-3557	1
		230V	CD-3922	1	CD-33490	1	CD-33490	1
11	FUSE HOLDER		FU-3772	1	FU-3772	1	FU-3772	1
	FUSE, 15 AMP		FU-3775	2	FU-3775	2	FU-3775	2
12*	THERMOSTAT KNOB		KN-3473	2	KN-3473	2	KN-3473	3

* NOT SHOWN

Part numbers and drawings are subject to change without notice.

SERVICE

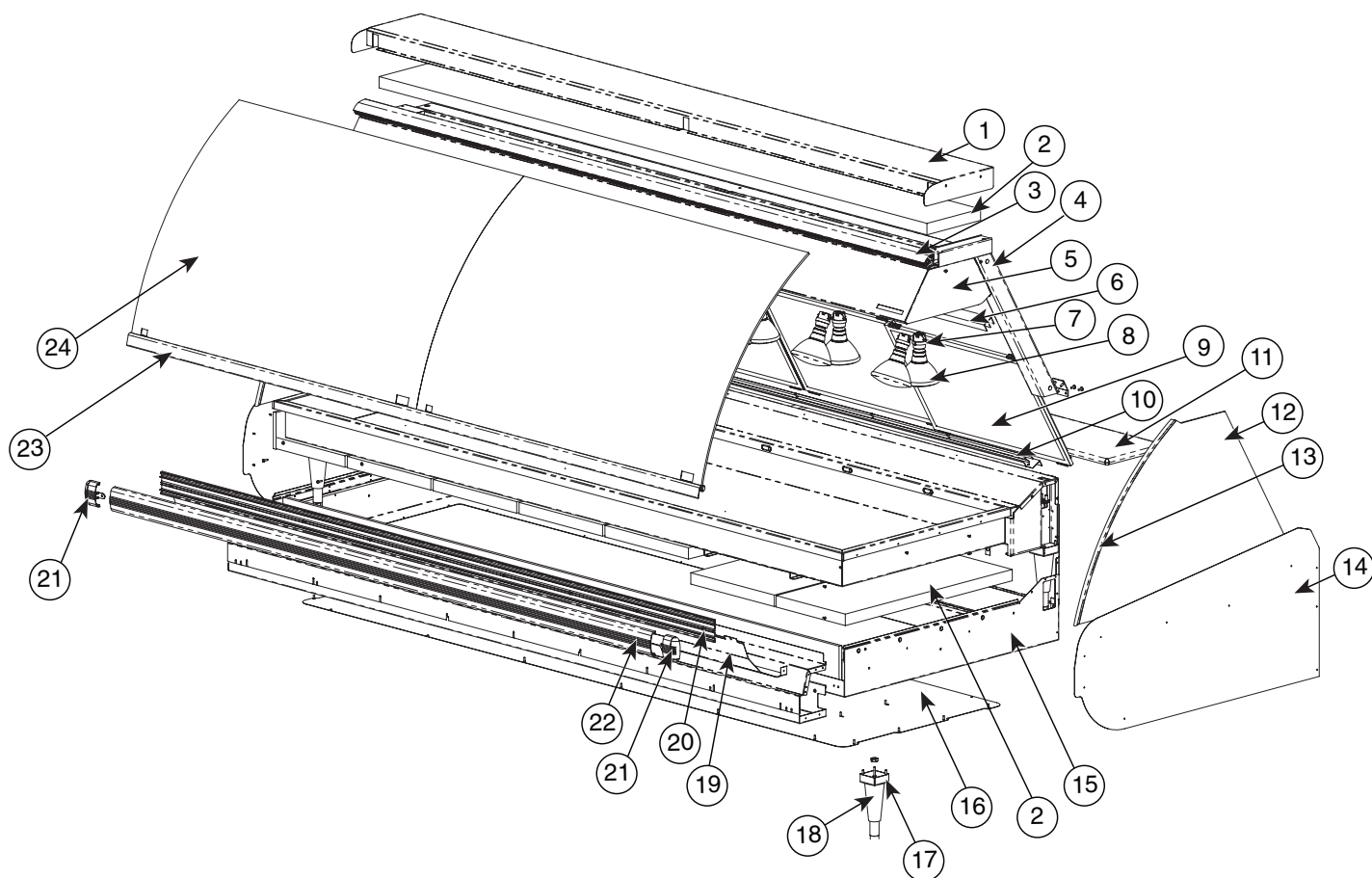
EC2(SYS) SERIES - BASE ASSEMBLY (EC2SYS-96 SHOWN)



MODEL >		EC2(SYS)-48		EC2(SYS)-72		EC2(SYS)-96	
ITEM	DESCRIPTION	PART NO.	QTY	PART NO.	QTY	PART NO.	QTY
1	END PANEL, RH	BLACK	1005704	1	1005704	1	1005704
		STAINLESS STEEL	1005861	1	1005861	1	1005861
		CUSTOM COLOR	1005865	1	1005865	1	1005865
2	LOWER END PANEL, REAR		1004389		1004390	1	1004391
3	END PANEL, LH	BLACK	1005704	1	1005704	1	1005704
		STAINLESS STEEL	1005860	1	1005860	1	1005860
		CUSTOM COLOR	1005865	1	1005865	1	1005865
4	RISER, SIDE, 48" (1218mm) HEIGHT	BLACK	5003752	2	5003752	2	5003752
		STAINLESS STEEL	5003751	2	5003751	2	5003751
		CUSTOM COLOR	5013867	2	5013867	2	5013867
	RISER, SIDE, 52-1/4" (1326mm) HEIGHT	BLACK	5003960	2	5003960	2	5003960
		STAINLESS STEEL	5003959	2	5003959	2	5003959
		CUSTOM COLOR	5004608	2	5004608	2	5004608
5	RISER, FRONT/REAR, 48" (1218mm) HEIGHT	BLACK	1004771	2	1004773	2	1004777
		STAINLESS STEEL	1004770	2	1004772	2	1004776
		CUSTOM COLOR	1005870	2	1005871	2	1005872
	RISER, FRONT/REAR, 52-1/4" (1326mm) HEIGHT	BLACK	1005395	2	1004775	2	1004778
		STAINLESS STEEL	1005394	2	1004774	2	1005764
		CUSTOM COLOR	1005756	2	1005763	2	5004608
6	FRAME WELD, 48" (1218mm) HEIGHT		FR-26610	1	FR-26611	1	FR-26612
	FRAME WELD, 52-1/4" (1326mm) HEIGHT		FR-26918	1	FR-29718		FR-26719
7	FRONT PANEL, LOWER	BLACK	1005636	1	1005637	1	1005638
		STAINLESS STEEL	1005639	1	1005640	1	1005641
		CUSTOM COLOR	1005862	1	1005863	1	1005864
8	BUMPER, INNER	4ft (1.22m)	1010952	1	—	—	—
		6ft (1.83m)	—	—	1010953	1	—
		8ft (2.44m)	—	—	—	—	1010954
9	BUMPER, OUTER		1010949	1	1010950	1	1010951
10	BUMPER, END CAP		BM-29064	2	BM-29064	2	BM-29064

Part numbers and drawings are subject to change without notice.

HN2(SYS) SERIES - COUNTERTOP ASSEMBLY (HN2-96 SHOWN)



Part numbers and drawings are subject to change without notice.

SERVICE

HN2(SYS) SERIES - COUNTERTOP ASSEMBLY (PARTS LIST)

MODEL >		HN2(SYS)-48		HN2(SYS)-72		HN2(SYS)-96		
ITEM	DESCRIPTION	PART NO.	QTY	PART NO.	QTY	PART NO.	QTY	
1	TOP, OUTER	1004351	1	1004352	1	1004353	1	
2	INSULATION	IN-22364	1	IN-22364	1	IN-22364	1	
3	CLAMP ASSEMBLY	CM-26919	1	CM-26920	1	CM-26921	1	
4	HINGE KIT	HG-28545	1	HG-28545	1	HG-28545	1	
5	TOP, INNER	5003445	1	5003446	1	5003449	1	
6	DOOR TRACK, UPPER	TK-26752	1	TK-26754	1	TK-26756	1	
7	LAMP RECEPTACLE	120V/208-240V	RP-3952	6	RP-3952	10	RP-3952	14
	230V	RP-3955	6	RP-3955	10	RP-3955	14	
8	BULB	120V/208-240V	LP-33592	6	LP-33592	10	LP-33592	14
	230V	LP-33783	6	LP-33783	10	LP-33783	14	
9	DOOR GLASS	LEFT-HAND	DR-25422	1	DR-25422	1	DR-25422	1
	MIDDLE	DR-25423	1	DR-25423	1	DR-25423	2	
	RIGHT-HAND	—	—	DR-25424	1	DR-25424	1	
10	DOOR TRACK, BOTTOM	TK-26751	1	TK-26753	1	TK-26755	1	
11	CUTTING BOARD	4ft (1.22m)	4016	1	—	4016	2	
	6ft (1.83m)	—	—	4017	1	—	—	
	CUTTING BOARD BRACKET	BT-2342	2	BT-2342	2	BT-2342	2	
	BRACKET, CUTTING BOARD	11283	2	11283	2	11283	2	
12	END GLASS	CLEAR	GL-26947	2	GL-26947	2	GL-26947	2
	SOLAR BRONZE (LH)	GL-26949	1	GL-26949	1	GL-26949	1	
	SOLAR BRONZE (RH)	GL-26948	1	GL-26948	1	GL-26948	1	
13	GASKET, END GLASS	GS-22547	2	GS-22547	2	GS-22547	2	
14	END PANEL	BLACK (RH/LH)	1005367	2	1005367	2	1005367	2
	CUSTOMER SIDE, STAINLESS STEEL (RH)	1005370	1	1005370	1	1005370	1	
	CUSTOMER SIDE, STAINLESS STEEL (LH)	1005369	1	1005369	1	1005369	1	
	CUSTOM COLOR	1005368	2	1005368	2	1005368	2	
15	ELEMENT KIT	4880	1	4881	1	14228	1	
16	ACCESS PANEL	1000620	1	1001264	1	1001469	1	
17	LEG BRACE WELD	5003365	4	5003365	4	5003365	4	
18	LEGS	6" (152mm)	LG-22341	4	LG-22341	4	LG-22341	6
19	FRONT PANEL, LOWER	BLACK	1005342	1	1005343	1	1005344	1
	STAINLESS STEEL	1005747	1	1005748	1	1005749	1	
	CUSTOM COLOR	1005750	1	1005751	1	1005752	1	
20	BUMPER, INNER	4ft (1.22m)	1010952	1	—	—	—	—
	6ft (1.83m)	—	—	1010953	1	—	—	
	8ft (2.44m)	—	—	—	—	1010954	1	
21	BUMPER, END CAP	BM-29064	2	BM-29064	2	BM-29064	2	
22	BUMPER, OUTER	1010949	1	1010950	1	1010951	1	
23	HANDLE	HD-27795	1	HD-24689	1	HD-26589	1	
24	FRONT GLASS**	GL-26910	1	GL-26911	1	GL-26910	2	
25*	STRUT	500N	SU-24829	2	SU-24829	2	—	—
	800N	—	—	SU-24830	1	SU-24830	3	
26*	LIGHT CHANNEL	1004357	1	1004358		1010325	1	

* NOT SHOWN

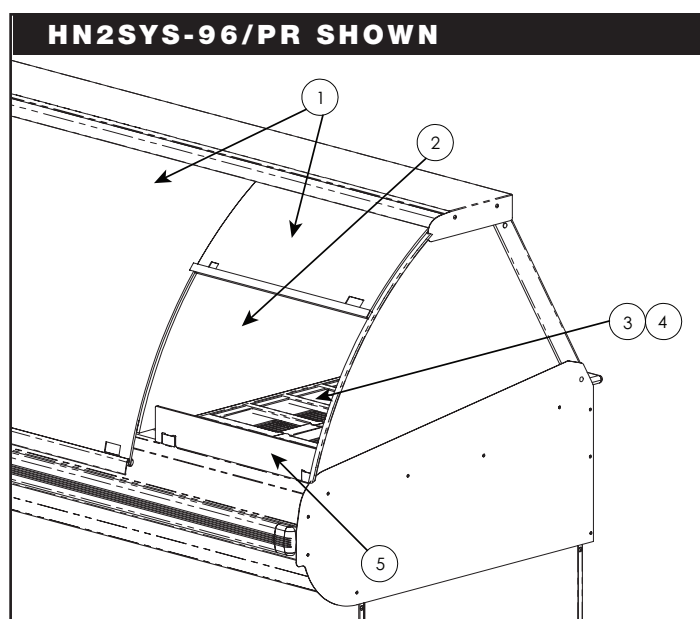
** Standard parts listed, see next page for optional parts.

Part numbers and drawings are subject to change without notice.

HN2(SYS) SERIES - SUBSTITUTE PARTS FOR SELF-SERVE UNITS

MODEL >			HN2(SYS)	-48/P	-72/P	-72/PL, /PR	-96/PL, /PR
ITEM	DESCRIPTION		PART NO.	QTY	QTY	QTY	QTY
1	GLASS FRONT	FULL-SERVE	GL-26910	—	1	1	—
			GL-26911	—	—	—	1
		SELF-SERVE	GL-26958	1	—	—	—
			GL-26959	—	1	—	—
			GL-26983	—	—	1	1
2	TEMPERED GLASS DIVIDER		GL-26984	—	—	1	1
3	PAN GRIDS		PN-25752	2	3	1	1
4	GUARD, HEAT ASSEMBLY		5013006	1	—	—	—
		PLEXI GUARD ONLY	GD-29442	1	—	—	—
			5013007	—	1	—	—
		PLEXI GUARD ONLY	GD-29444	—	1	—	—
			5013008	—	—	1	1
		PLEXI GUARD ONLY	GD-29446	—	—	1	1
5*	PAN INSERT		1000993	1	—	—	—
			1000735	—	1	—	—
			1000521	—	—	1	1
6*	DIVIDER GLASS SUPPORT		5002164	—	—	1	—
			5002165	—	—	—	1
7*	GUARD, HEAT (PRIOR TO 01/11)		GD-25577	1	—	—	—
			GD-25899	—	1	—	—
			GD-24852	—	—	1	1
8*	HOLDER, HEAT GUARD (PRIOR TO 01/11)		1000734	1	—	—	—
			1002065	—	1	—	—
			1001455	—	—	1	1
9*	STRUT, GAS	500N	SU-24829	—	2	2	2
		800N	SU-24830	—	—	1	1

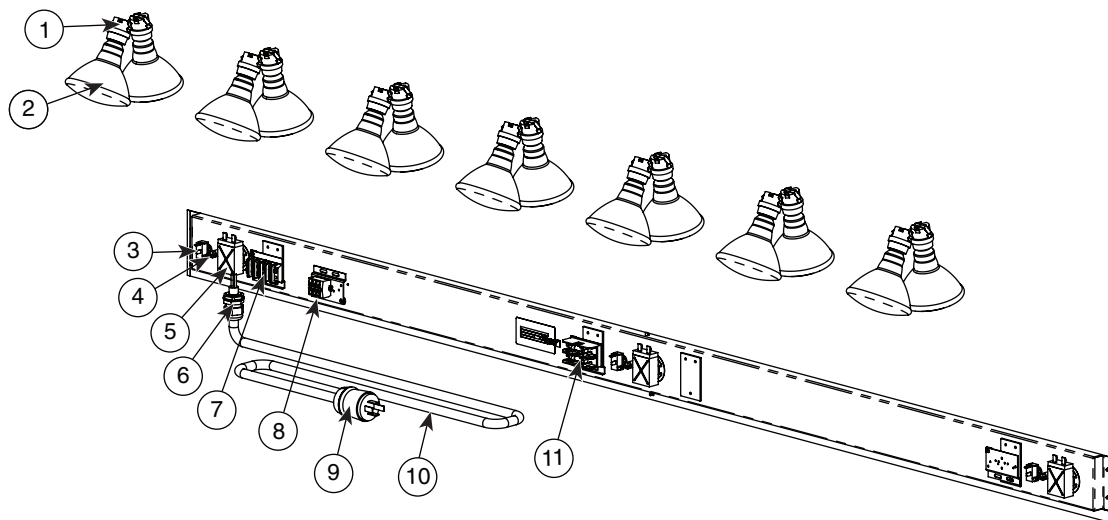
* NOT SHOWN



Part numbers and drawings are subject to change without notice.

SERVICE

HN2(SYS) SERIES - ELECTRICAL ASSEMBLY (HN2-96 SHOWN)

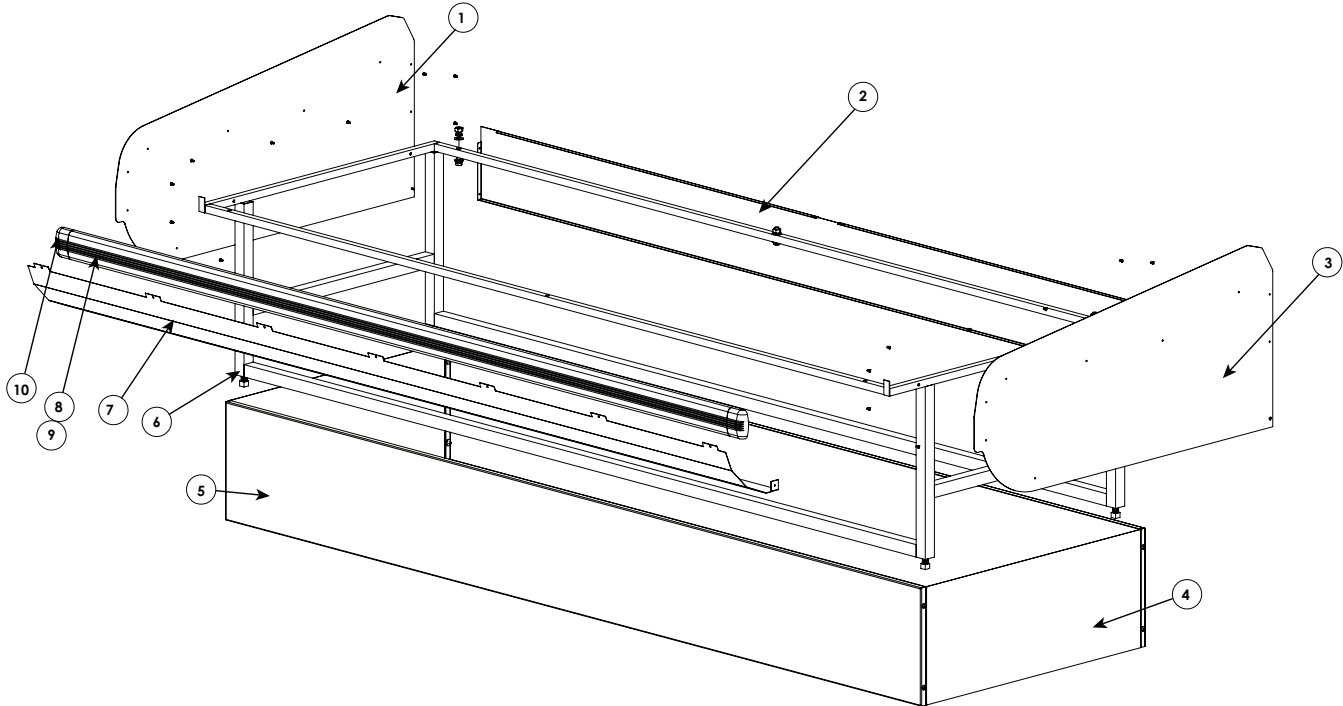


MODEL >		HN2(SYS)-48		HN2(SYS)-72		HN2(SYS)-96	
ITEM	DESCRIPTION	PART NO.	QTY	PART NO.	QTY	PART NO.	QTY
1	LAMP RECEPTACLE	120V/208-240V	RP-3952	6	RP-3952	10	RP-3952
		230V	RP-3955	6	RP-3955	10	RP-3955
2	BULB	120V	LP-33592	6	LP-33592	10	LP-33592
		230V	LP-33783	6	LP-33783	10	LP-33783
3	SWITCH, TOGGLE	120V/208-240V	SW-33896	2	SW-33896	2	SW-33896
		230V	SW-3528	2	SW-3528	2	SW-3528
	SWITCH, BOOT	230V	SW-3905	2	SW-3905	2	SW-3905
4	INDICATOR LIGHT	120V/208-240V	LI-3951	2	LI-3027	2	LI-3027
		230V	LI-3951	2	LI-3951	2	LI-3951
5	THERMOSTAT		TT-3498	2	TT-3498	2	TT-3498
6	BUSHING, STRAIN RELIEF		BU-34717	1	BU-34717	1	BU-33505
7	TERMINAL BLOCK	120V/208-240V	—	—	BK-3021	1	BK-3021
		230V	BK-3021	1	BK-3021	1	BK-3021
		380-415V	—	—	BK-3021	1	BK-3021
8	TERMINAL BLOCK, MODULAR	120V/208-240V	BK-25432	1	BK-25432	1	BK-25432
		230V	—	—	—	—	BK-25432
		380-415V	—	—	BK-25432	1	BK-25432
9	PLUG	NEMA L14-20P, 20A 250	PG-3337	1	—	—	—
		NEMA L14-30P, 30A 250	—	—	PG-3267	1	PG-3267
10	CORD 7' (2.13m)	120V	CD-3291	1	CD-3557	1	CD-3557
		230V	CD-3922	1	CD-33490	1	CD-33490
11	FUSE HOLDER		FU-3772	1	FU-3772	1	FU-3772
	FUSE, 15 AMP		FU-3775	2	FU-3775	2	FU-3775
12*	THERMOSTAT KNOB		KN-3473	2	KN-3473	2	KN-3473

* NOT SHOWN

Part numbers and drawings are subject to change without notice.

HN2(SYS) SERIES - BASE ASSEMBLY (HN2SYS-96 SHOWN)

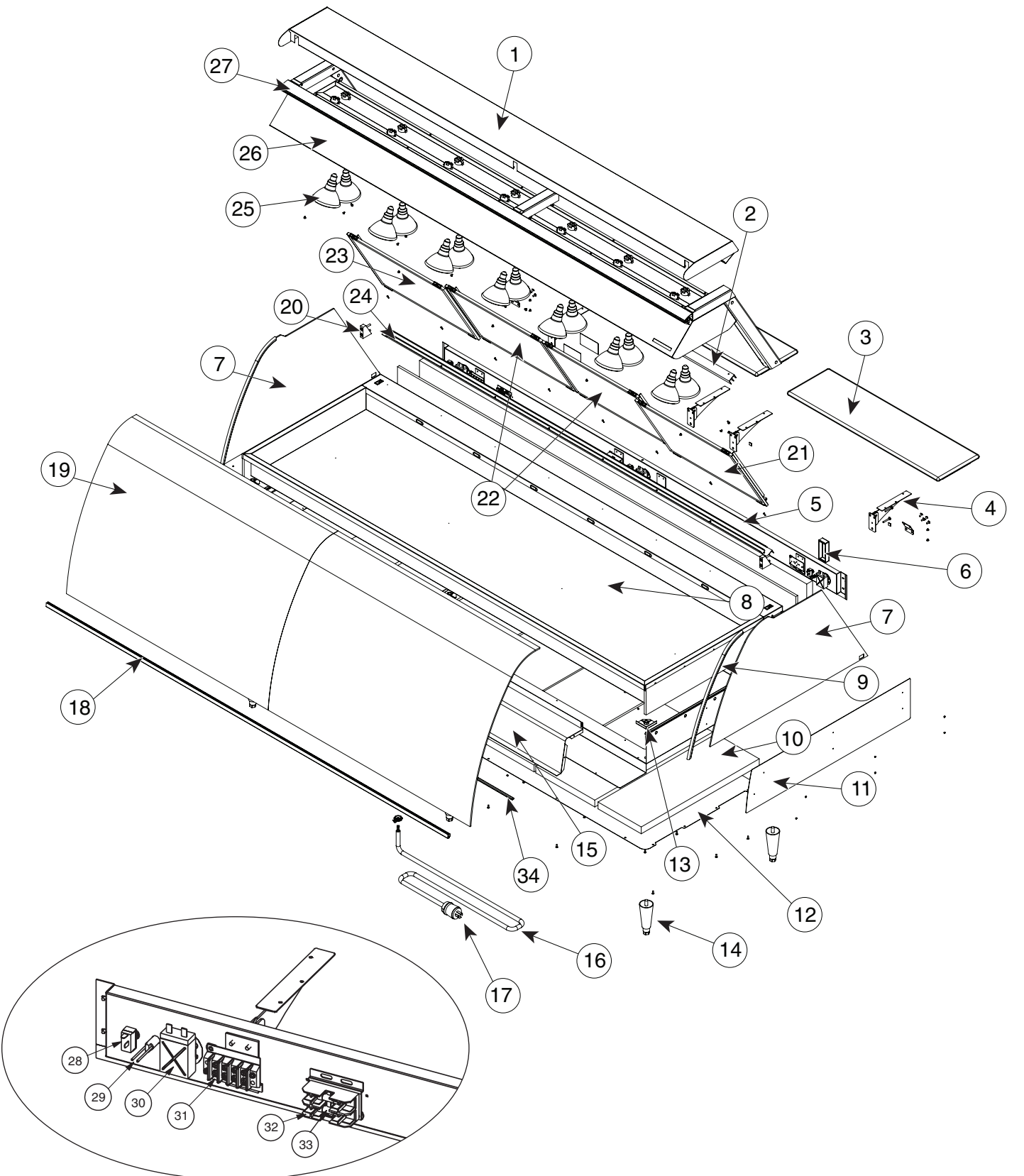


MODEL >		HN2(SYS)-48		HN2(SYS)-72		HN2(SYS)-96	
ITEM	DESCRIPTION	PART NO.	QTY	PART NO.	QTY	PART NO.	QTY
1	END PANEL, RH	1005367	1	1005367	1	1005367	1
	STAINLESS STEEL	1005370	1	1005370	1	1005370	1
	CUSTOM COLOR	1005368	1	1005368	1	1005368	1
2	LOWER END PANEL	1004389	1	1004390	1	1004391	1
3	END PANEL, LH	1005367	1	1005367	1	1005367	1
	STAINLESS STEEL	1005369	1	1005369	1	1005369	1
	CUSTOM COLOR	1005368	1	1005368	1	1005368	1
4	RISER, SIDE, 52-1/4" (1326mm) HEIGHT	5003960	2	5003960	2	5003960	2
	STAINLESS STEEL	5003959	2	5003959	2	5003959	2
	CUSTOM COLOR	5004608	2	5004608	2	5004608	2
	RISER, SIDE, 48" (1218mm) HEIGHT	5003752	2	5003752	2	5003752	2
	STAINLESS STEEL	5003751	2	5003751	2	5003751	2
	CUSTOM COLOR	5013867	2	5013867	2	5013867	2
5	RISER, FRONT/REAR, 52-1/4" (1326mm) HEIGHT	1005395	2	1004775	2	1004779	2
	STAINLESS STEEL	1005394	2	1004774	2	1004778	2
	CUSTOM COLOR	1005756	2	1005763	2	1005764	2
	RISER, FRONT/REAR, 48" (1218mm) HEIGHT	1004771	2	1004773	2	1004777	2
	STAINLESS STEEL	1004770	2	1004772	2	1004776	2
	CUSTOM COLOR	1005870	2	1005871	2	1005872	2
6	FRAME WELD, 52-1/4" (1326mm) HEIGHT	FR-26918	1	FR-26918	1	FR-26719	1
	FRAME WELD, 48" (1218mm) HEIGHT	FR-26610	1	FR-26611	1	FR-26612	1
7	FRONT PANEL, LOWER	1005342	1	1005343	1	1005344	1
	STAINLESS STEEL	1005747	1	1005748	1	1005749	1
	CUSTOM COLOR	1005750	1	1005751	1	1005752	1
8	BUMPER, INNER	1010952	1	—	—	—	—
	6ft (1.83m)	—	—	1010953	1	—	—
	8ft (2.44m)	—	—	—	—	1010954	1
9	BUMPER, OUTER	1010949	1	1010950	1	1010951	1
10	BUMPER, END CAP	BM-29064	2	BM-29064	2	BM-29064	2

Part numbers and drawings are subject to change without notice.

SERVICE

TY2(SYS) SERIES - COUNTERTOP ASSEMBLY (TY2-96 SHOWN)



Part numbers and drawings are subject to change without notice.

SERVICE

MODEL >		TY2(SYS)-48		TY2(SYS)-72		TY2(SYS)-96	
ITEM	DESCRIPTION	PART NO.	QTY	PART NO.	QTY	PART NO.	QTY
1	OUTER TOP	5001737	1	5001950	1	5001951	1
2	DOOR TRACK, UPPER	TK-26752	1	TK-26754	1	TK-26756	1
3	CUTTING BOARD 4ft (1.22m)	4016	1	—	—	4016	2
	6ft (1.83m)	—	—	4017	1	—	—
4	CUTTING BOARD BRACKET	BT-2342	2	BT-2342	2	BT-2342	2
5							
6	BRACKET, CUTTING BOARD, SPACER	11283	2	11283	2	11283	2
7	END GLASS CLEAR	GL-26035	2	GL-26035	2	GL-26035	2
	CUSTOMER SIDE, SOLAR BRONZE (LH)	GL-26777	1	GL-26777	1	GL-26777	1
	CUSTOMER SIDE, SOLAR BRONZE (RH)	GL-26778	1	GL-26778	1	GL-26778	1
8	ELEMENT KIT	4880	1	4881	1	14228	1
9	GASKET, END GLASS	GS-22547	1	GS-22547	1	GS-22547	1
10	INSULATION	IN-22364	1	IN-22364	1	IN-22364	1
11	END PANEL BLACK (RH/LH)	OP-26905	2	OP-26905	2	OP-26905	2
	STAINLESS STEEL (RH)	1002703	1	1002703	1	1002703	1
	STAINLESS STEEL (LH)	1002704	1	1002704	1	1002704	1
	CUSTOM COLOR	1005753	2	1005753	2	1005753	2
12	ACCESS COVER	1000620	1	1001264	1	1001469	1
13	LEG BRACE WELD	5001830	1	5001830	1	5001830	1
14	LEGS 4" (102mm)	LG-22341	4	LG-22341	4	LG-22341	6
15	FRONT DECOR PANEL	1002486	1	1002759	1	1002760	1
16	CORD 7' (2.13m) 120V	CD-3291	1	CD-3557	1	CD-3557	1
	230V	CD-3922	1	CD-33490	1	CD-33490	1
17	PLUG NEMA L14-20P, 20A 250	PG-3337	1	—	—	—	—
	NEMA L14-30P, 30A 250	—	—	PG-3267	1	PG-3267	1
18	HANDLE	HD-27795	1	HD-27796	1	HD-27797	1
19	FRONT GLASS**	GL-22477	1	GL-22478	1	GL-22477	2
20	UPRIGHT WEDGE	BK-26061	2	BK-26061	2	BK-26061	2
21	DOOR GLASS, LEFT-HAND	DR-25422	1	DR-25422	1	DR-25422	1
22	DOOR GLASS, MIDDLE	DR-25423	1	DR-25423	1	DR-25423	2
23	DOOR GLASS, RIGHT-HAND	—	—	DR-25424	1	DR-25424	1
24	DOOR TRACK, BOTTOM	TK-26751	1	TK-26753	1	TK-26755	1
25	BULB 120V	LP-33592	6	LP-33592	10	LP-33592	14
	230V	LP-33783	6	LP-33783	10	LP-33783	14
26	INNER TOP SPOT	5001733	1	5001934	1	5001937	1
27	CLAMP ASSEMBLY	CM-26095	1	CM-26099	1	CM-26100	1
28	SWITCH, TOGGLE 120V/208-240V	SW-33896	2	SW-33896	2	SW-33896	3
	230V	SW-3528	2	SW-3528	2	SW-3528	3
	SWITCH, BOOT 230V	SW-3905	2	SW-3905	2	SW-3905	3
29	INDICATOR LIGHT 120V/208-240V	LI-3951	2	LI-3027	2	LI-3027	3
	230V	LI-3951	2	LI-3951	2	LI-3951	3
30	THERMOSTAT	TT-3498	2	TT-3498	2	TT-3498	3
31	TERMINAL BLOCK 120V/208-240V	—	—	BK-3021	1	BK-3021	1
	230V	BK-3021	1	BK-3021	1	BK-3021	1
	380-415V	—	—	BK-3021	1	BK-3021	1
32	FUSE HOLDER	FU-3772	1	FU-3772	1	FU-3772	1
33	FUSE, 15 AMP	FU-3775	2	FU-3775	2	FU-3775	2
34	GASKET, RUBBER COUNTERTOP UNITS ONLY	FR-22496	2	FR-22496	2	FR-22496	2
35*	THERMOSTAT KNOB	KN-3473	2	KN-3473	2	KN-3473	3
36*	TERMINAL BLOCK, MODULAR 120V/208-240V	BK-25432	1	BK-25432	1	BK-25432	1
	230V	—	—	—	—	BK-25432	1
	380-415V	—	—	BK-25432	1	BK-25432	1

* NOT SHOWN

** Standard parts listed, see next page for optional parts.

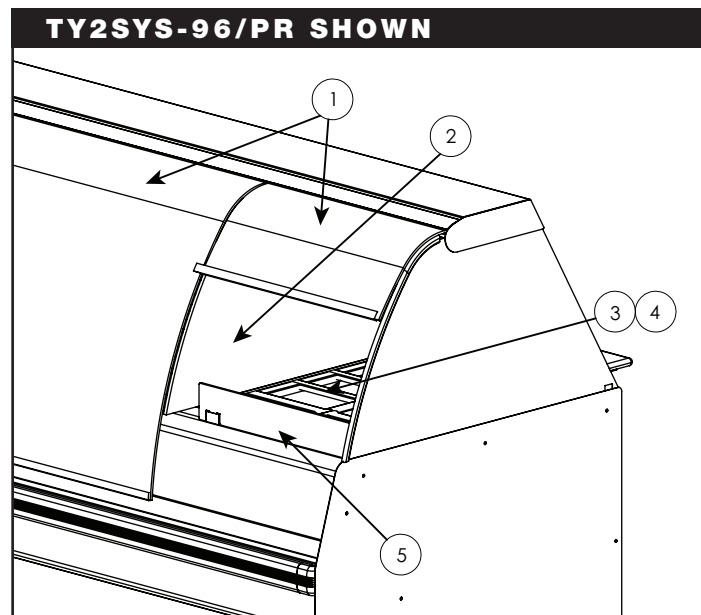
Part numbers and drawings are subject to change without notice.

SERVICE

TY2(SYS) SERIES - SUBSTITUTE PARTS FOR SELF-SERVE UNITS

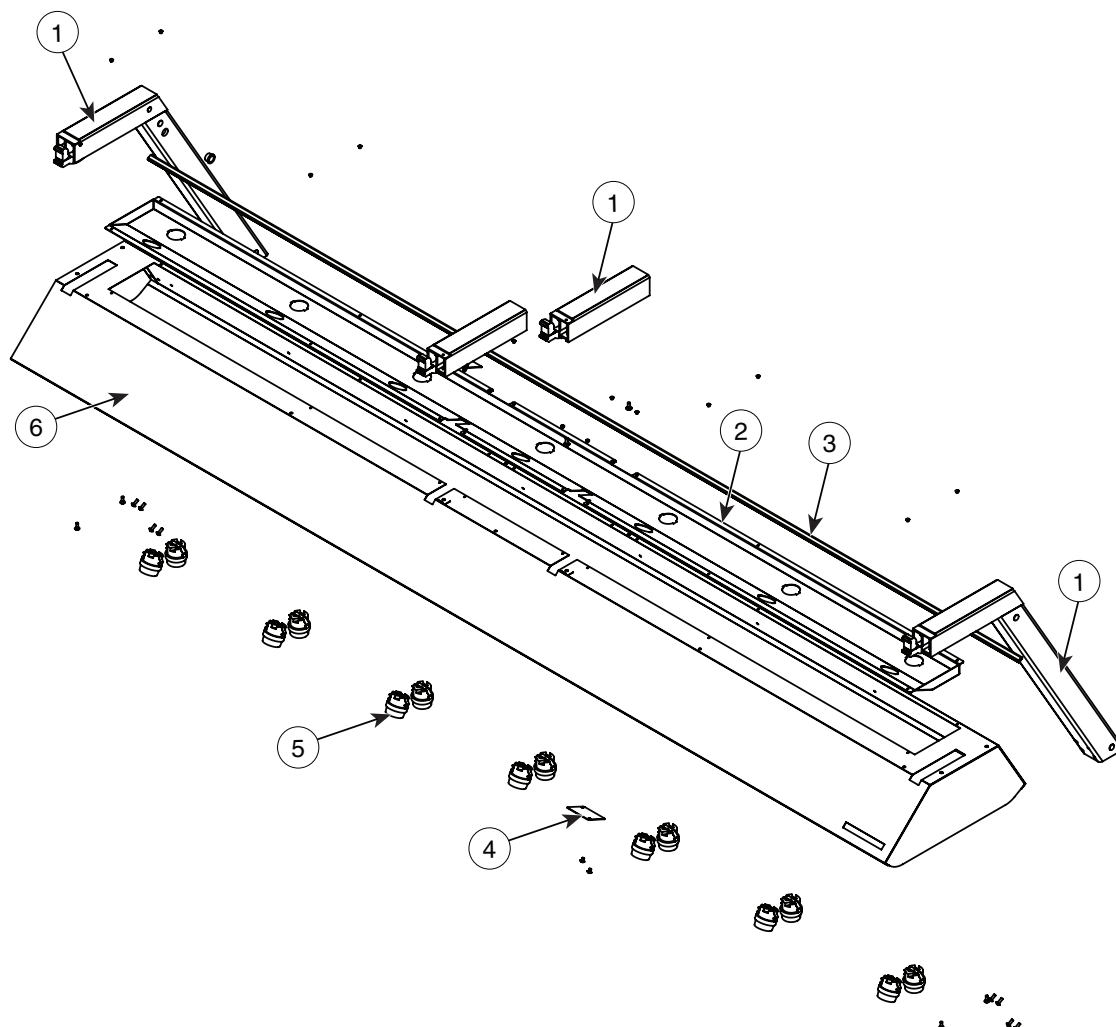
MODEL >		TY2(SYS)	-48/P	-72/P	-72/PL, /PR	-96/PL, /PR
ITEM	DESCRIPTION	PART NO.	QTY	QTY	QTY	QTY
1	GLASS FRONT FULL-SERVE	GL-22477	—	—	1	—
		GL-22478	—	—	—	1
	SELF-SERVE	GL-22475	1	—	—	—
		GL-22476	—	1	—	—
		GL-22474	—	—	1	1
2	TEMPERED GLASS DIVIDER	GL-22049	—	—	1	1
3	PAN GRIDS	PN-25752	2	3	1	1
4	PAN INSERT	1000993	1	—	—	—
		1000735	—	1	—	—
		1000521	—	—	1	1
5	GUARD, HEAT ASSEMBLY	5013006	1	—	—	—
	PLEXI GUARD ONLY	GD-29442	1	—	—	—
		5013007	—	1	—	—
	PLEXI GUARD ONLY	GD-29444	—	1	—	—
		5013008	—	—	1	1
	PLEXI GUARD ONLY	GD-29443	—	—	1	1
6*	DIVIDER GLASS SUPPORT	5002164	—	—	1	—
		5002165	—	—	—	1
7*	GUARD, HEAT (PRIOR TO 01/11)	GD-25577	1	—	—	—
		GD-25899	—	1	—	—
		GD-24852	—	—	1	1
8*	HOLDER, HEAT GUARD (PRIOR TO 01/11)	1000734	1	—	—	—
		1002065	—	1	—	—
		1001455	—	—	1	1
9*	STRUT, GAS 500N	SU-24829	—	—	2	2
	800N	SU-24830	—	—	1	1

* NOT SHOWN



Part numbers and drawings are subject to change without notice.

TY2(SYS) SERIES - INNER TOP ASSEMBLY (TY2-96 SHOWN)



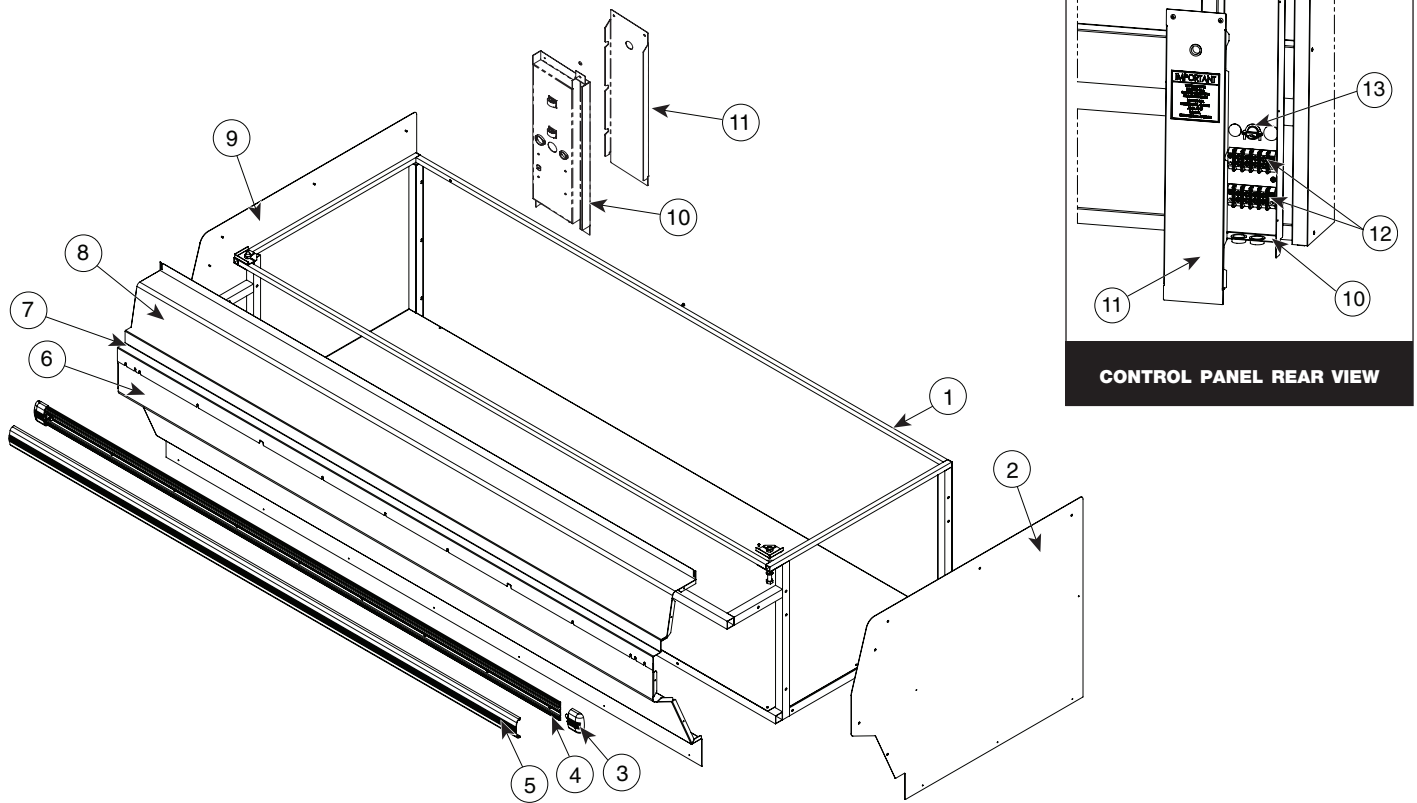
MODEL >		TY2(SYS)-48		TY2(SYS)-72		TY2(SYS)-96	
ITEM	DESCRIPTION	PART NO.	QTY	PART NO.	QTY	PART NO.	QTY
1	HINGE KIT (SERVICE)	HG-28545	2	HG-28545	3	HG-28545	4
2	LIGHT CHANNEL	1004357	1	1004358	1	1004359	1
3	GASKET	FR-22496	4	FR-22496	6	FR-22496	8
4	LIGHT CHANNEL COVER PLATE	—	—	1005372	1	1005372	2
5	LAMP RECEPTACLE	120V/208-240V	RP-3952	RP-3952	10	RP-3952	14
		230V	RP-3955	RP-3955	10	RP-3955	14
6	INNER TOP, SPOT	5001733	1	5001934	1	5001937	1
7*	STRUT	500N	SU-24829	SU-24829	2	SU-24829	2
		800N	SU-24830	SU-24830	1	SU-24830	2

* NOT SHOWN

Part numbers and drawings are subject to change without notice.

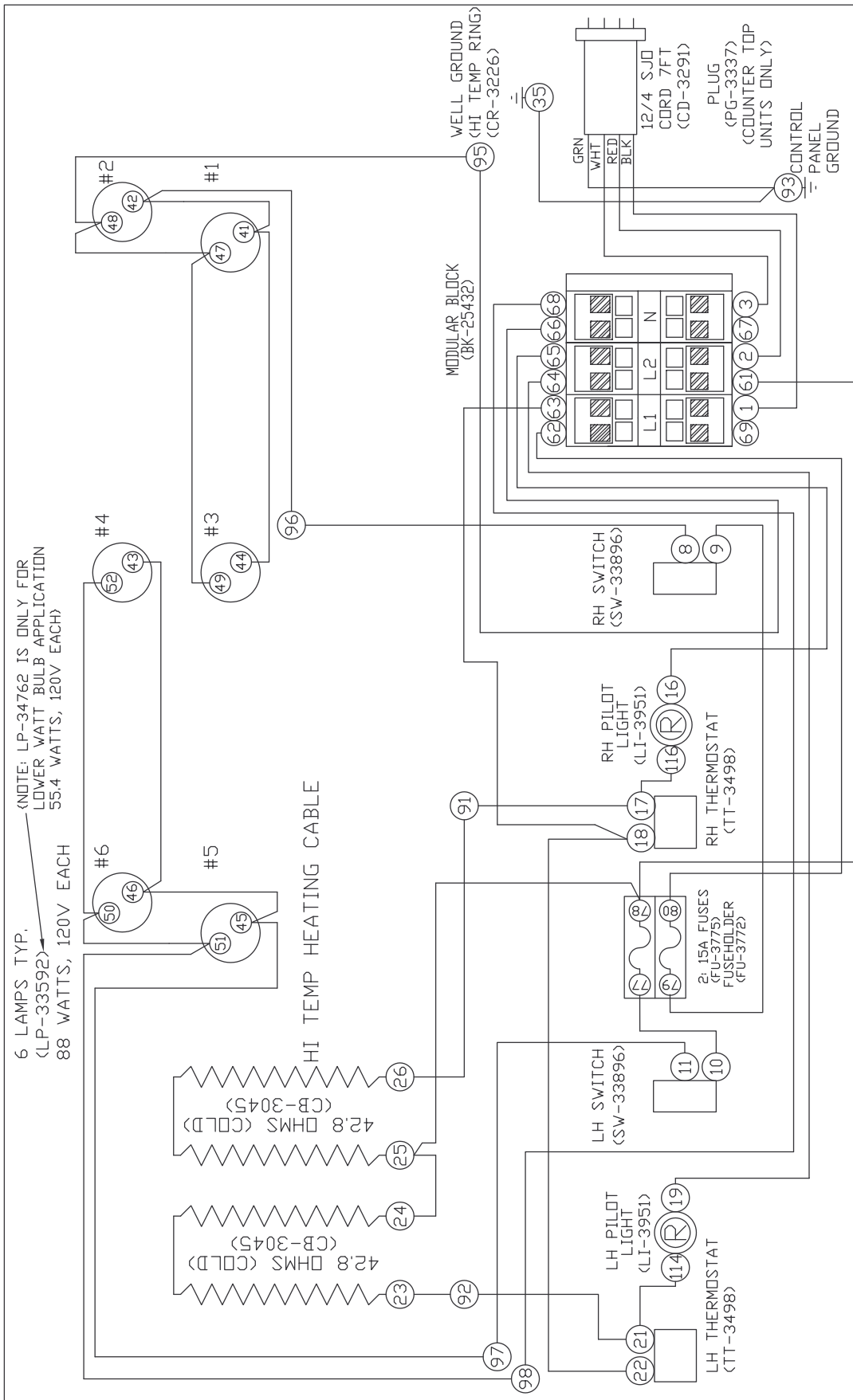
SERVICE

TY2(SYS) SERIES - BASE ASSEMBLY (TY2SYS-96 SHOWN)



MODEL >		TY2(SYS)-48		TY2(SYS)-72		TY2(SYS)-96	
ITEM	DESCRIPTION	PART NO.	QTY	PART NO.	QTY	PART NO.	QTY
1	FRAME WELD	FR-26296	1	FR-26297	1	FR-26298	1
2	END PANEL, RH	OP-26906	1	OP-26906	1	OP-26906	1
	BLACK	1003568	1	1003568	1	1003568	1
	STAINLESS STEEL	1005754	1	1005754	1	1005754	1
	CUSTOM COLOR	1005754	1	1005754	1	1005754	1
3	BUMPER, END CAP	BM-29064	2	BM-29064	2	BM-29064	2
4	BUMPER TRACK	1010949	1	1010950	1	1010951	1
5	BUMPER RAIL	1010952	1	—	—	—	—
	4ft (1.22m)	—	—	1010953	1	—	—
	6ft (1.83m)	—	—	—	—	1010954	1
	8ft (2.44m)	—	—	—	—	—	—
6	FRONT PANEL, LOWER	OP-26907	1	OP-26908	1	OP-26909	1
	BLACK	1003569	1	1003570	1	1003571	1
	STAINLESS STEEL	1004830	1	1004831	1	1004832	1
	CUSTOM COLOR	1004830	1	1004831	1	1004832	1
7	FRONT PANEL, UPPER	1003860	1	1003861	1	1003862	1
8	FRONT DECOR PANEL	1002486	1	1002759	1	1002760	1
9	END PANEL, LH	OP-26906	1	OP-26906	1	OP-26906	1
	BLACK	1003567	1	1003567	1	1003567	1
	STAINLESS STEEL	1005754	1	1005754	1	1005754	1
	CUSTOM COLOR	1005754	1	1005754	1	1005754	1
10	ELECTRICAL PANEL	1003602	1	1003602	1	1003602	1
11	ACCESS PANEL	1003603	1	1003603	1	1003603	1
12	TERMINAL BLOCK	BK-3023	2	BK-3023	2	BK-3023	2
13	3/4" CORD CONNECTOR	CR-3293	1	CR-3293	1	CR-3293	1

Part numbers and drawings are subject to change without notice.



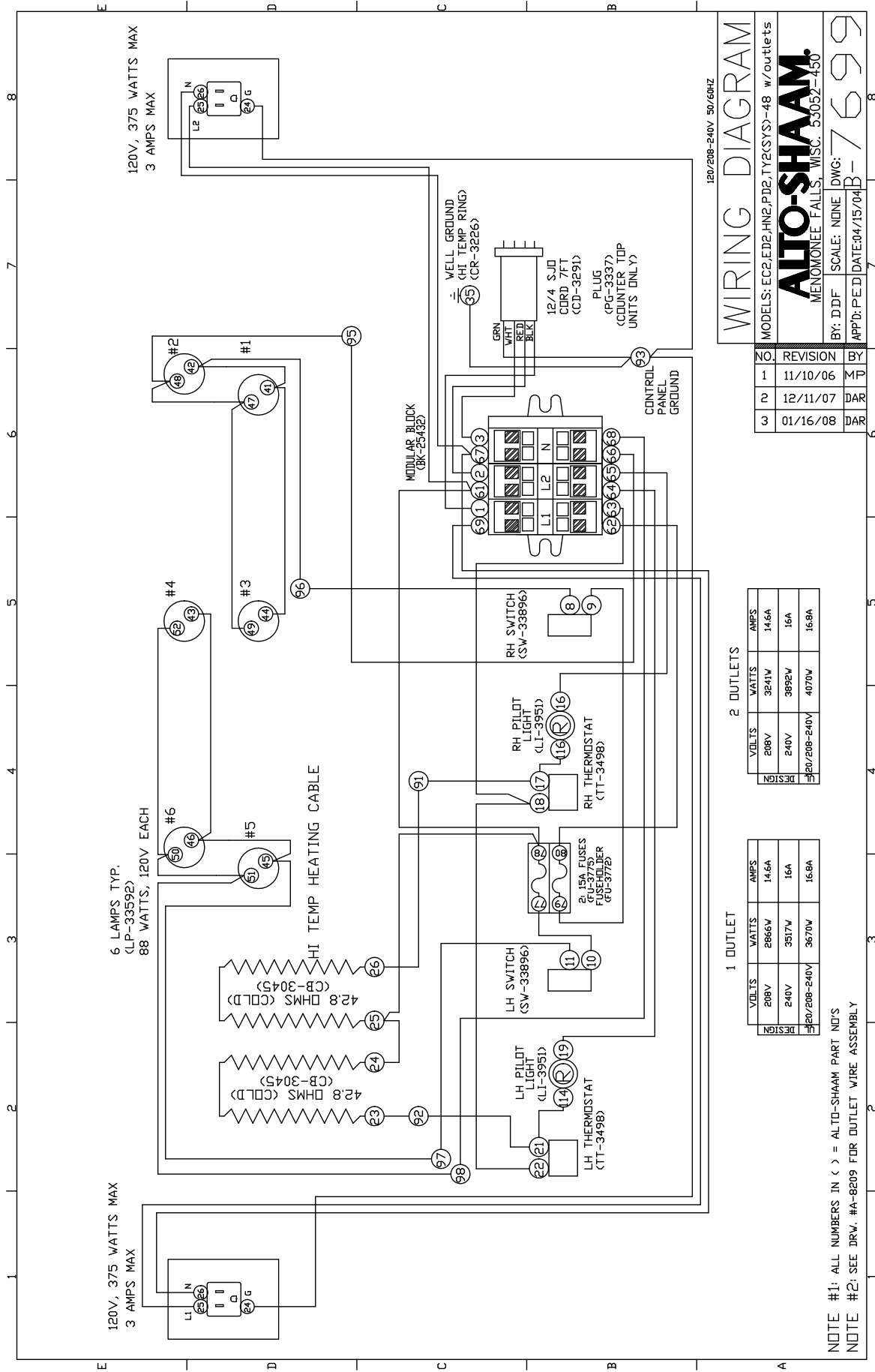
5	5917	FLIP T-BLOCK WIRING	2/14/11	JPK
4	5396	RELEASED TO PRODUCTION	4/03/09	KDS
3.01	-	BULB CHANGE	3/16/09	JPK
REV	ECO	DESCRIPTION	DATE	APP
EC2,ED2,HN2,PD2,TY2 (SYS)-48 & /P				

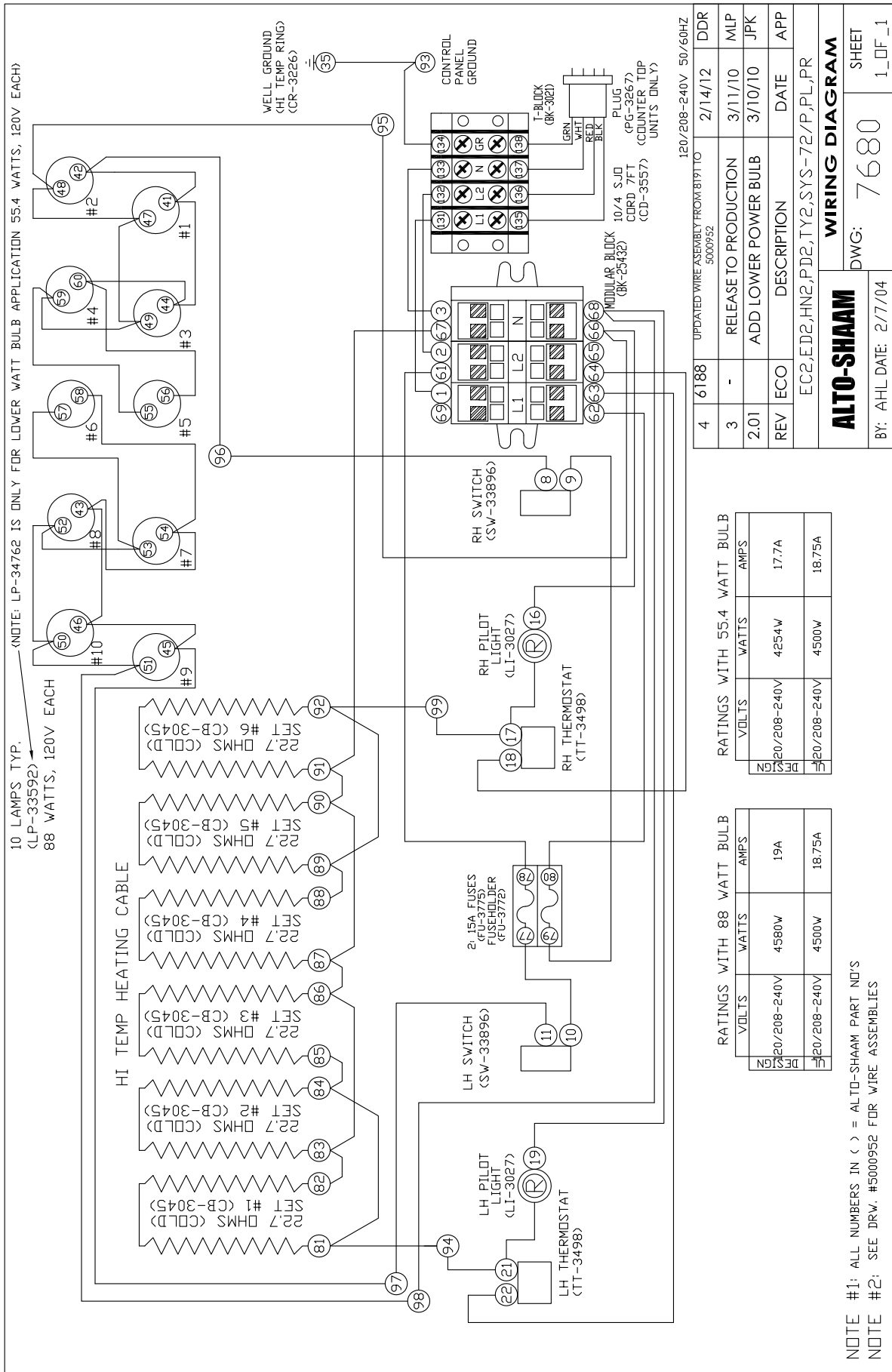
RATINGS WITH 55.4 WATT BULB				
DESIGN	VOLTS	WATTS	AMPS	
	208V	2595W	10.2A	
	240V	2946W	12.3A	
	120/208-240V	3320W	13.8A	

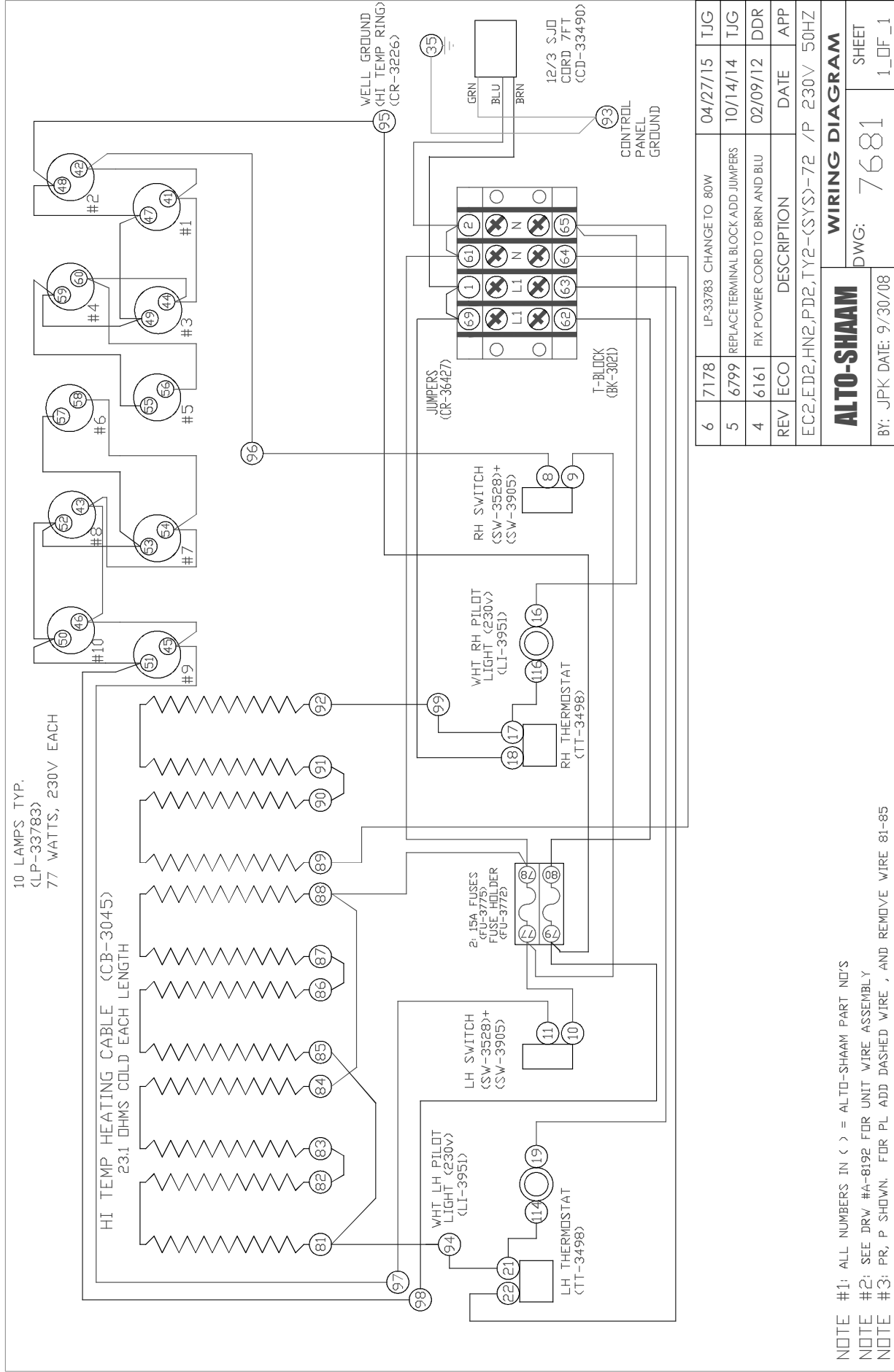
RATINGS WITH 88 WATT BULB				
DESIGN	VOLTS	WATTS	AMPS	
	208V	2491W	11.6A	
	240V	3142W	13A	
	120/208-240V	3320W	13.8A	

WIRING DIAGRAM	
ALTO-SHAAM	DWG: 7661
BY: AHL DATE: 06/11/03	SHEET 1_OF_1

NOTE #1: ALL NUMBERS IN () = ALTO-SHAAM PART NO'S
NOTE #2: SEE DRW. B-8166 FOR WIRE ASSEMBLIES

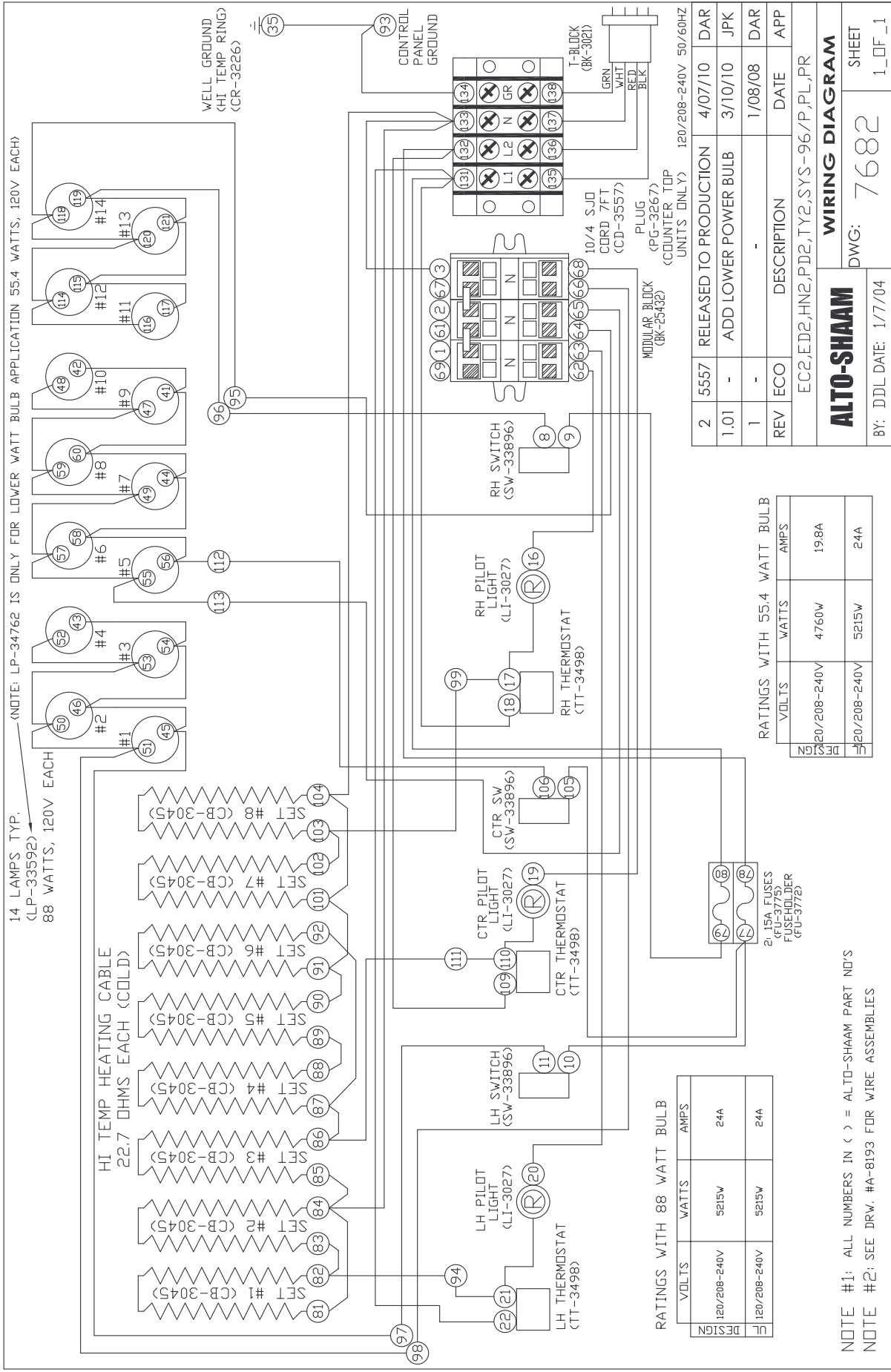


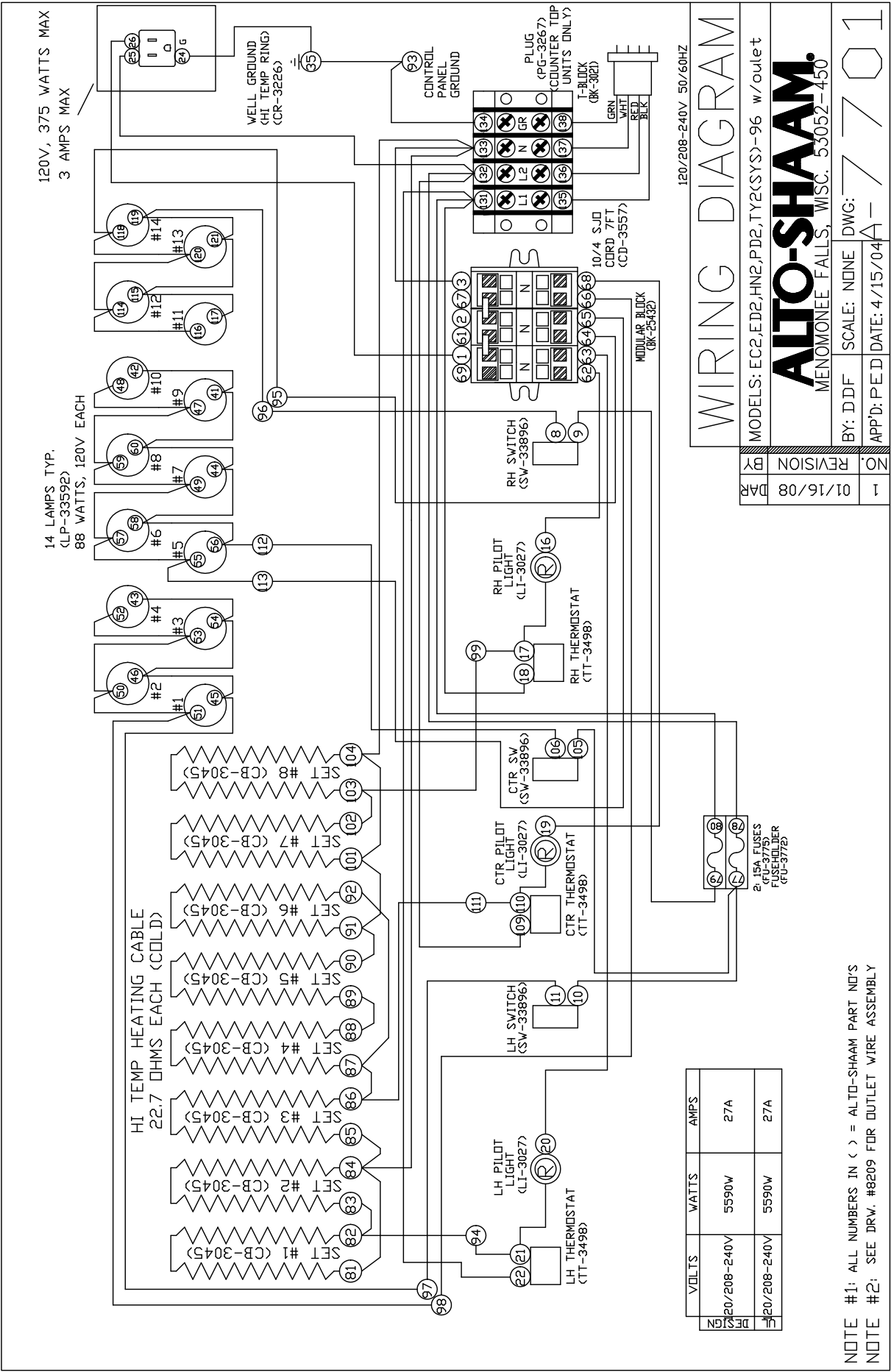


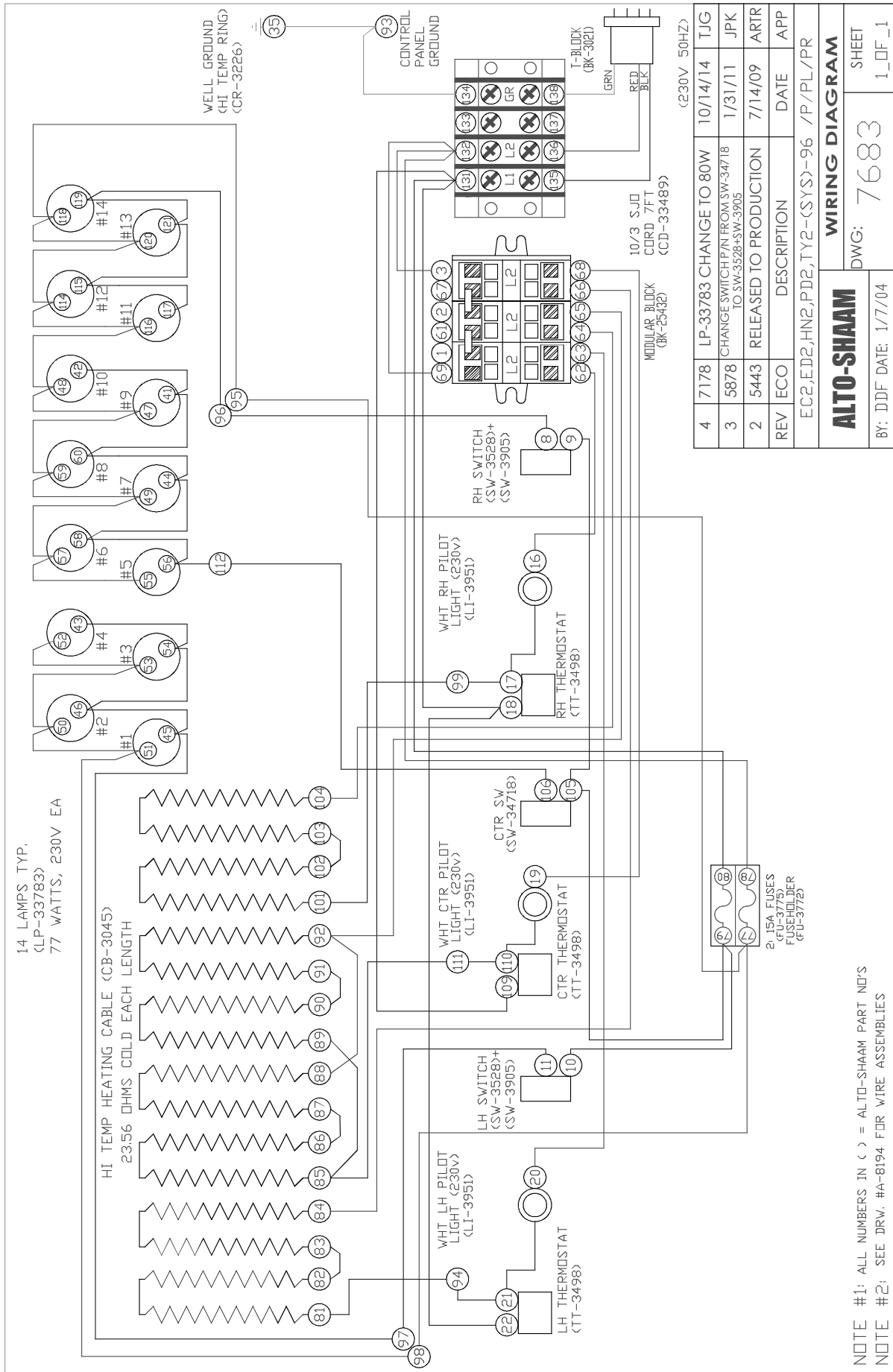


NOTE #1: ALL NUMBERS IN () = ALTO-SHAAM PART NO'S
NOTE #2: SEE DRW #A-8192 FOR UNIT WIRE ASSEMBLY
NOTE #3: PR, P SHOWN. FOR PL ADD DASHED WIRE , AND REMOVE WIRE 81-85

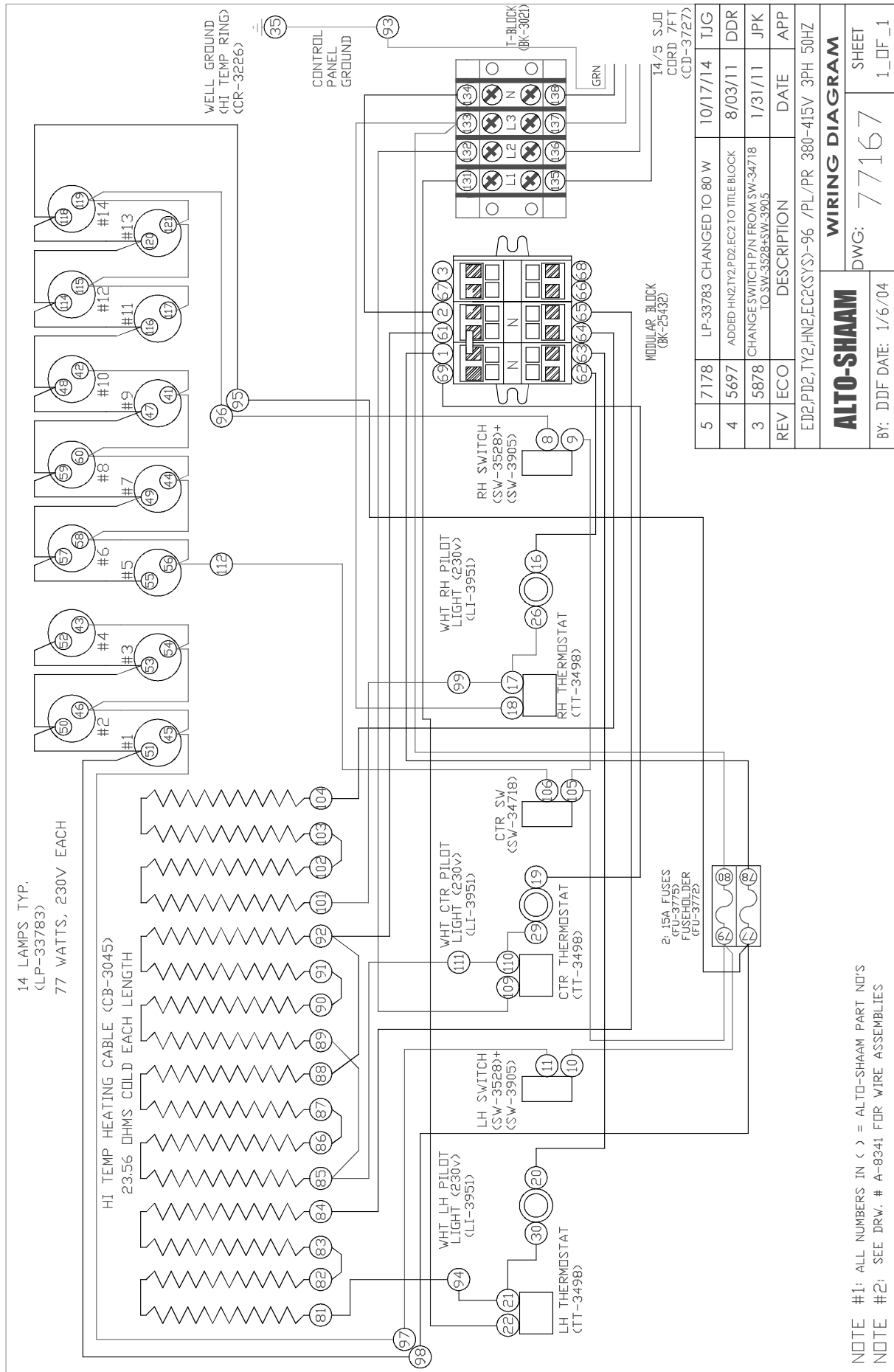
6	7178	LP-33783 CHANGE TO 80W	04/27/15	TJG
5	6799	REPLACE TERMINAL BLOCK ADD JUMPERS	10/14/14	TJG
4	6161	FIX POWER CORD TO BRN AND BLU	02/09/12	DDR
REV	ECO	DESCRIPTION	DATE	APP
EC2,ED2,HN2,PD2,TY2-(SYS)-72 /P 230V 50HZ				
ALTO-SHAAM			WIRING DIAGRAM	
BY: JPK DATE: 9/30/08		DWG: 7681	SHEET 1_DF_1	



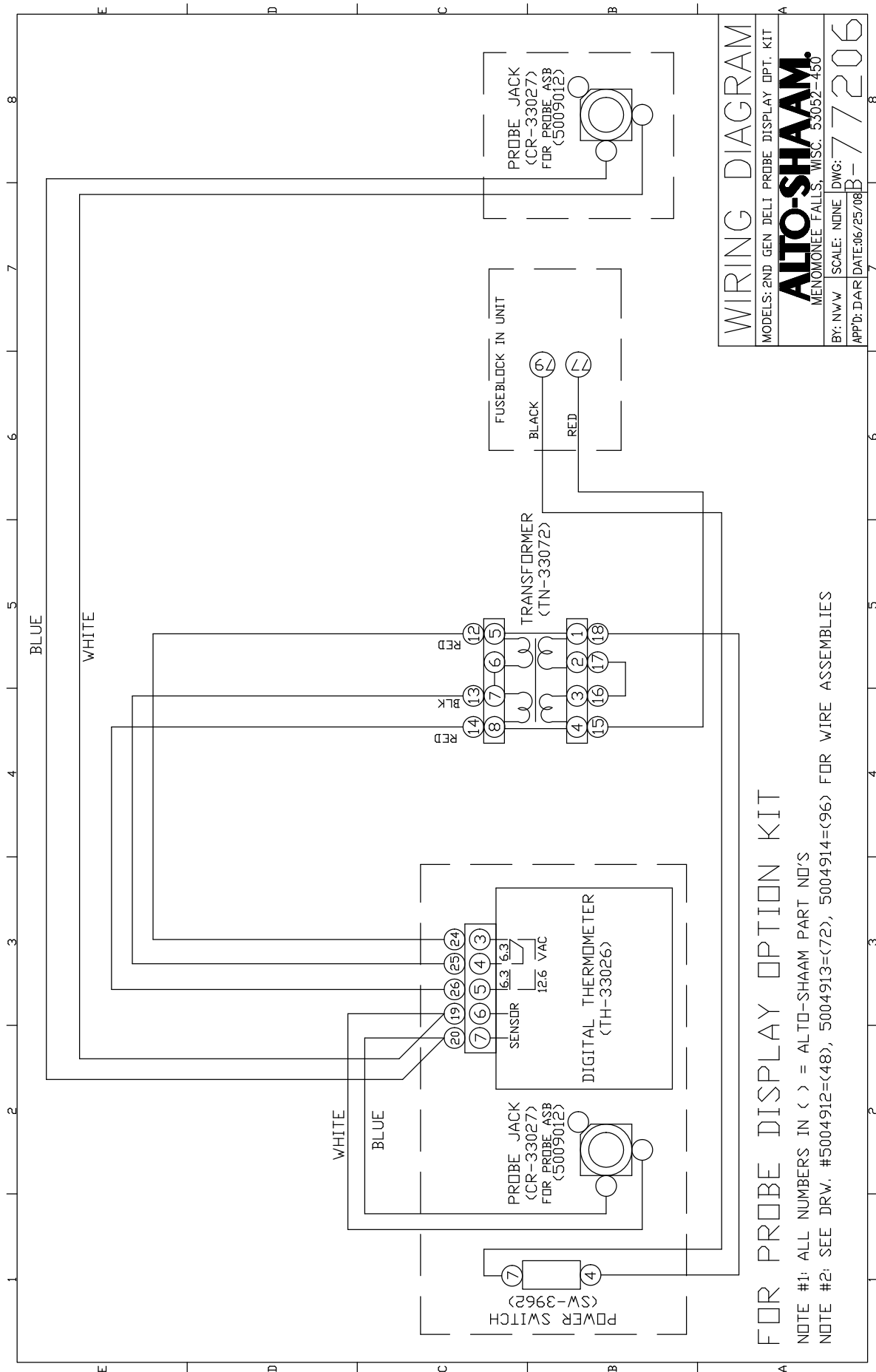




NOTE #1: ALL NUMBERS IN () = ALTO-SHAAM PART NO'S
NOTE #2: SEE DRW. #A-8194 FOR WIRE ASSEMBLIES



NOTE #1: ALL NUMBERS IN () = ALTO-SHAAM PART NO'S
NOTE #2: SEE DRW. # A-8341 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, do not put the appliance into service until the damage has been inspected by an authorized Alto-Shaam service provider.

Shipping damages are 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.

LIMITED WARRANTY

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

The original parts warranty period is as follows:

For the refrigeration compressor on Alto-Shaam Quickchillers™, five (5) years from the date of installation of appliance.

For the heating element on Halo Heat® cooking and holding ovens, as long as the original purchaser owns the oven. This excludes holding only equipment.

For all other original parts, one (1) year from the date of installation of appliance or fifteen (15) months from the shipping date, whichever occurs first.

The labor warranty period is one (1) year from the date of installation or fifteen (15) months from the shipping date, whichever occurs first.

Alto-Shaam will bear normal labor charges performed during standard business hours, excluding overtime, holiday rates or any additional fees.

To be valid, a warranty claim must be asserted during the applicable warranty period. This warranty is not transferable.

THIS WARRANTY DOES NOT APPLY TO:

1. Calibration.
2. Replacement of light bulbs, door gaskets, and/or the replacement of 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, including but not limited to, equipment subjected to harsh or inappropriate chemicals, including but not limited to, compounds containing chloride or quaternary salts, poor water quality, or equipment with missing or altered serial numbers.
5. Damage incurred as a direct result of poor water quality, inadequate maintenance of steam generators and/or surfaces affected by water quality. Water quality and required maintenance of steam generating equipment is the responsibility of the owner/operator.
6. Damage caused by use of any cleaning agent other than Alto-Shaam's Combitherm® Cleaner, including but not limited to damage due to chlorine or other harmful chemicals. **Use of Alto-Shaam's Combitherm® Cleaner on Combitherm® ovens is highly recommended.**
7. Any losses or damage resulting from malfunction, including loss of product, food product, revenue, or consequential or incidental damages of any kind.
8. 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, express or implied, including the implied warranties of merchantability and fitness for a particular purpose. In no event shall Alto-Shaam be liable for loss of use, loss of revenue or profit, or loss of product, or for any indirect, special, incidental, or consequential damages. No person except an officer of Alto-Shaam, Inc. is authorized to modify this warranty or to incur on behalf of Alto-Shaam any other obligation or liability in connection with Alto-Shaam equipment.



Effective November 1, 2012

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