

Banquet Carts Electric





Models: 1000-BQ2/96 1000-BQ2/128 1000-BQ2/192



INSTALLATIONOPERATIONMAINTENANCE

HALQHEAT.



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

www.alto-shaam.com



DELIVERY

This Alto-Shaam appliance has been thoroughly tested and inspected to insure 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 have been delivered in one or more packages. Check to ensure that all standard items and options have been received with each model as ordered.

Save all the information and instructions packed with the appliance. 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.

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

NOTE: All claims for warranty must include the full model number and serial number of the unit.

UNPACKING

1. Carefully remove the appliance from the carton or crate.

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



2. Read all instructions in this manual carefully before initiating the installation of this appliance.

DO NOT DISCARD THIS MANUAL.

This manual is considered to be part of the appliance and is to be provided to the owner or manager of the business or to the person responsible for training operators. Additional manuals are available from the Alto-Shaam service department.

3. 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.

SAFETY PROCEDURES AND PRECAUTIONS

Knowledge of proper procedures is essential to the safe operation of electrically and/or gas energized equipment. In accordance with generally accepted product safety labeling guidelines for potential hazards, the following 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.

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

- This appliance is intended to cook, hold or process foods for the purpose of human consumption. No other use for this appliance is authorized or recommended.
- 2. 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.
- 3. Any troubleshooting guides, component views, and parts lists included in this manual are for general reference only and are intended for use by qualified technical personnel.
- 4. 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.

NOTE



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

DO NOT DISPOSE OF ELECTIRCAL OR ELECTRONIC EQUIPMENT WITH OTHER MUNICIPAL WASTE.

SITE INSTALLATION

This appliance, complete with unattached items and accessories, may be delivered in one or more packages, Check to insure that all the following items have been received as standard with each unit:

| Item | BQ2/96 | BQ2/128 | BQ2/192 |
|--------------|--------|---------|---------|
| Shelves | 4 | 4 | 8 |
| Shelf Clips | 4 | 4 | 8 |
| Shelf Slides | 8 | 8 | 16 |

This appliance is designed for the purpose of maintaining hot foot at a temperature for safe consumption. It must be used on a level surface in a location that will permit the the banquet cart to function for its intended purpose and allow adequate access for proper cleaning and maintenance.

The unit must not be installed in any area where it may be affected by steam, grease, dripping water, high temperatures, or any other severely adverse conditions.

DANGER



IMPROPER INSTALLATION,
ALTERATION, ADJUSTMENT,
SERVICE, OR MAINTENANCE COULD
RESULT IN SEVERE INJURY, DEATH
OR CAUSE PROPERTY DAMAGE.

READ THE INSTALLATION,
OPERATING AND MAINTENANCE
INSTRUCTIONS THOROUGHLY
BEFORE INSTALLING OR SERVICING
THIS EQUIPMENT.

CAUTION



TO PREVENT PERSONAL INJURY, USE CAUTION WHEN MOVING OR LEVELING THIS APPLIANCE.

CLEARANCE REQUIREMENTS

Full perimeter bumper accommodates all clearance requirements.

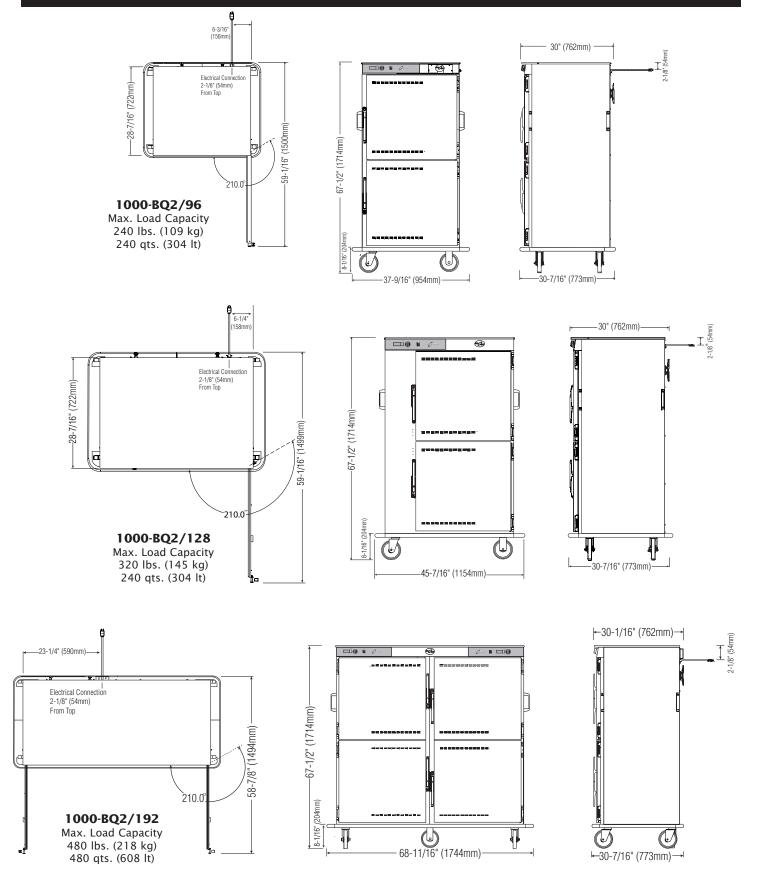
| WEIGHT • 1000-BQ2/96 | | |
|----------------------------|---------------------------|--|
| NET | 392 lb (178 kg) | |
| SHIP | 450 lb (204 kg) | |
| CARTON | 77" x 44" x 35" | |
| DIMENSIONS: (H x W x D) | (1956mm x 1118mm x 889mm) | |

| WEIGHT • 1000-BQ2/128 | | | |
|----------------------------|---------------------------|--|--|
| NET | 454 lb (206 kg) | | |
| SHIP | 520 lb (236 kg) | | |
| CARTON | 77" x 52" x 35" | | |
| DIMENSIONS: (H x W x D) | (1956mm x 1321mm x 889mm) | | |

| WEIGHT • 1000-BQ2/192 | | |
|----------------------------|---------------------------|--|
| NET | 653 lb (296 kg) | |
| SHIP | 760 lb (345 kg) | |
| CARTON | 77" x 74" x 35" | |
| DIMENSIONS: (H x W x D) | (1956mm x 1880mm x 889mm) | |

INSTALLATION

OUTSIDE DIMENSIONS



INSTALLATION

SITE INSTALLATION

| Options and Accessories Plate Carriers, Chrome Plated (EACH HOLDS FOUR (4) PREPLATED MEALS) | Model 1000- BQ2/96 Capacity | Model 1000- BQ2/128 Capacity | Model 1000- BQ2/192 Capacity |
|---|--------------------------------|------------------------------------|------------------------------------|
| Uncovered "P" Carriers | 24 carriers | 32 carriers | 48 carriers |
| | 96 Preplated Meals | 128 preplated meals | 192 preplated meals |
| Covered "C" Carriers | 24 carriers | 32 carriers | 48 carriers |
| | 96 Preplated Meals | 128 preplated meals | 192 preplated meals |
| Uncovered "EP" Carriers | 16 carriers | 24 carriers | 32 carriers |
| | 64 Preplated Meals | 96 preplated meals | 128 preplated meals |
| Covered "EC" Carriers | 16 carriers | 24 carriers | 32 carrriers |
| | 64 Preplated Meals | 96 preplated meals | 128 preplated meals |
| Shelf & Shelf Supports (for each extra shelf) | SH-2835 | SH-22727 | SH-2835 |

INSTALLATION

ELECTRICAL

MDANGER



ENSURE POWER SOURCE
MATCHES VOLTAGE STAMPED
ON APPLIANCE NAMEPLATE.

- **1.** An identification tag is permanently mounted on the cabinet.
- **2.** Plug cabinet into a properly grounded receptacle ONLY, positioning the unit so the power supply cord is easily accessible in case of an emergency.
- **3.** If necessary, a proper receptacle or outlet configuration as required for this unit, must be installed by a licensed electrician in accordance with applicable, local electrical codes.

NOTE:

230V 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.

The appliance must be connected to an electrical circuit that is protected by an external GFCI outlet.

ADANGER



ELECTRICAL CONNECTIONS MUST BE MADE BY A QUALIFIED SERVICE TECHNICIAN IN ACCORDANCE WITH APPLICABLE ELECTRICAL CODES.

DANGER



To avoid electrical shock, 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 according with CSA C22.1, Canadian Electrical Code Part 1 or local codes.



| ELECTR | ICAL • | 1000-B | 22/96 | | |
|---------|--------|-----------|---------|-----|-------------------------------|
| VOLTAGE | PHASE | CYCLE/ HZ | AMPS | kW | CORD & PLUG INCLUDED |
| 125 | 1 | 50/60 | 12.8 | 1.6 | NEMA 5-15P 15A- 125V PLUG |
| 208-240 | 1 | 50/60 | 7.0мах. | 1.6 | NEMA 6-15P 15A - 250V PLUG |
| 230 | 1 | 50/60 | 6.5 | 1.5 | CEE 7/7 220-230V PLUG |

| ELECTR | ICAL • | 1000-B | 22/128 | | |
|---------|--------|-----------|--------|--------|-------------------------------|
| VOLTAGE | PHASE | CYCLE/ HZ | AMPS | kW | CORD & PLUG INCLUDED |
| 125 | 1 | 50/60 | 18.4 | 2.30 | NEMA 5-20P 20A- 125V PLUG |
| 208-240 | 1 | 50/60 | 8.7ма | x 2.10 | NEMA 6-15P 15A - 250V PLUG |
| 230 | 1 | 50/60 | 8.4 | 1.95 | CEE 7/7 220-230V PLUG |

| ELECTR | ICAL • | 1000-BQ | 2/192 | | |
|---------|----------------|---------------|---------|-----|-------------------------------|
| VOLTAGE | PHASE | CYCLE/ HZ | AMPS | kW | CORD & PLUG INCLUDED |
| 125 | 1 SWITCH IN | 50/60 | 16 | 2.0 | NEMA 5-20P 20A- 125V PLUG |
| POWER | SWITCH IN | HIGH POSITION | 24мах | 3.0 | NEMA 5-30P 30A - 125V PLUG |
| 208-240 | 1 | 50/60 | 14.2мах | 3.4 | NEMA 6-15P 15A - 250V PLUG |
| 230 | 1 | 50/60 | 13.0 | 3.0 | CEE 7/7 220-230V PLUG |

START-UP

Before operating the unit, clean both the interior and exterior of the unit with a clean, damp cloth and mild soap solution. Rinse carefully. Clean and install the shelf slides and shelves.

Become familiar with the operation of the controls. Read this manual and keep it in a secure location.

The appliance is equipped with a special heating cable. Through this Halo Heat concept, the heating cable is mounted against the walls of the unit to provide an evenly applied heat source controlled by a thermostat. The design and operational characteristics of the unit eliminate the need for a moisture pan or a heat circulating fan. Through even heat application, the quality of food products is maintained up to several hours or more.

START-UP....

- **1.** Connect the electric cord to an appropriate power outlet.
- **2.** Close the compartment vents located on the inside of each compartment door.
- **3.** Press the power ON for the appropriate compartments. The power button will illuminate.

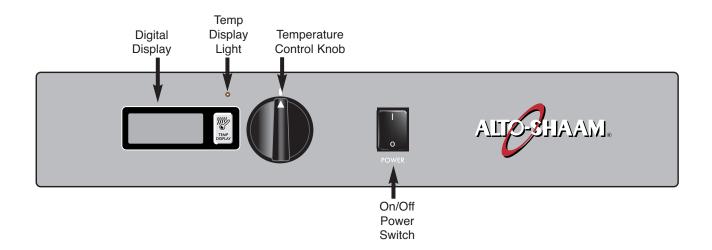
- **4.** Rotate the control knob to the desired holding temperature. The temperature will be displayed on the digital display.
- **5.** The temperature display light will illuminate when the inside air reaches the desired holding temperature.

TO TOGGLE BETWEEN FAHRENHEIT AND CELSIUS

The factory default is Fahrenheit. To change to Celsius:

- **1.** With the control OFF (i.e. temperature setting in the OFF position), press and hold the Temperature Display button for 5 seconds.
- **2.** The control will show "degC" for 3 seconds to verify selection and then show the temperature. (Set Point or Actual, whichever the user has selected) in °C.
- **3.** Repeat to toggle to Fahrenheit.

Note: With a power failure, factory test, etc., the control will retain the °C or °F setting selected by the user when power is restored.



OPERATION

HOLDING PROCEDURE

1. Preheat at 200°F for 30 minutes.

Allow a minimum of 30 minutes for preheating before loading the banquet cart with product.

2. Load the cart with hot food only.

The purpose of the banquet cart is to maintain hot food at proper serving temperature. Only hot food should be placed into the banquet cart. Before loading the cart with food, use a food thermometer to make certain all products have reached an internal temperature range of 140° to 160°F (60° to 71°C). Any food product not within the proper temperature range should be heated before loading into the banquet cart. For best results, use a Halo Heat Low Temperature 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.

3. Load covered plates or carriers into the banquet cart.

After the food has reached proper serving temperature:

- A. Use HEATED plates only.
- B. Load each series of four (4) plates into the banquet cart as soon as assembled and as quickly as possible to retain maximum heat.
- C. Load the plates in the upper section of the banquet cart first.
- D. Securely close the doors of the banquet cart after loading each series of plates.
- E. When loading the upper section of the banquet cart, the door on the lower section should remain closed.
- F. When loading the lower section of the banquet cart, the door on the upper section should remain closed.

4. Reset the thermostat to desired temperature.

After the cart has been completely filled with product, check to make certain the doors are securely closed, and reset the thermostat to to the desired holding temperature or the suggested 180°F (82°C).

The proper temperature range for the products being held, and whether or not to open or close the door vents, will depend on the type and quantity of product. When holding food for prolonged periods, it is advisable to periodically check the internal temperature of each item with a food thermometer to assure maintenance of the proper temperature range of 140° to 160°F (60° to 71°C).

5. Unload covered plates, trays or plate carriers as needed.

- A. Unload the items from the lower section of the cart first, and work up toward the top of the cart.
- B. When unloading the lower section of the banquet cart, the door on the upper section should remain closed.
- C. When unloading the upper section of the cart, the door on the lower section should remain closed.
- D. Securely close the doors of the cart after each product removal.

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.

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 TEMP | PERATURE | RANGE |
|----------------------------|--------------|------------|
| MEAT | FAHRENHEIT | CELSIUS |
| BEEF ROAST — Rare | 130°F | 54°C |
| BEEF ROAST — Med/Well Done | 155°F | 68°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 | 130°F | 54°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 |
| нам | 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 | 140° — 165°F | 60°- 74°C |
| SAUCES | 140° — 200°F | 60° — 93°C |
| SOUP | 140° — 200°F | 60° — 93°C |
| VEGETABLES | 160° — 175°F | 71° — 79°C |

THE HOLDING TEMPERATURES LISTED ARE SUGGESTED GUIDELINES ONLY. ALL FOOD HOLDING SHOULD BE BASED ON INTERNAL PRODUCT TEMPERATURES. ALWAYS FOLLOW LOCAL HELATH (HYGIENE) REGULATIONS FOR ALL INTERNAL TEMPERATURE REQUIREMENTS.

CARE AND CLEANING

CLEANING AND PREVENTIVE 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.



CARE AND CLEANING

THOROUGHLY CLEAN THE UNIT DAILY



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.

- **1.** Disconnect unit from power source, and let cool.
- **2.** Remove all detachable items such as plate carriers, shelves and side racks. Clean these items separately with a good grease solvent or commercial detergent. Rinse well and dry.
- surfaces of the unit with a damp, clean cloth and any good commercial detergent or grease solvent at the recommended strength. Spray heavily soiled areas with a water soluble degreaser and let stand for 10 minutes,



then remove soil with a plastic scouring pad. Rinse by wiping with a sponge and clean warm water to remove all residue. Remove excess water with sponge and wipe dry with a clean cloth or air dry. Replace side racks and shelves.

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

4. Clean control panel, door vents, door handles, and door gaskets thoroughly since these areas harbor food debris. Rinse by wiping with sponge and clean warm water. Wipe dry with a clean cloth.

- **5.** Interior can be wiped with a sanitizing solution after cleaning and rinsing. This solution must be approved for use on stainless steel food contact surfaces.
- **6.** 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 foodservice equipment.

MDANGER



DISCONNECT UNIT FROM POWER SOURCE BEFORE CLEANING OR SERVICING.

DANGER



AT NO TIME SHOULD THE INTERIOR OR EXTERIOR BE STEAM CLEANED, HOSED DOWN, OR FLOODED WITH WATER OR LIQUID SOLUTION OF ANY KIND. DO NOT USE WATER JET TO CLEAN.



SEVERE DAMAGE OR ELECTRICAL HAZARD COULD RESULT.

WARRANTY BECOMES VOID IF APPLIANCE IS FLOODED

SANITATION

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

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

The easiest way to insure full, natural food flavor is through comprehensive cleanliness. This means good control of both visible soil (dirt) and invisible soil (germs). A thorough approach to sanitation will provide essential cleanliness. It will assure an attractive appearance of equipment, along with maximum efficiency and utility. More importantly, a good sanitation program provides one of the key elements in the prevention of food-borne illnesses.

A controlled holding environment for prepared foods is just one of the important factors involved in the prevention of food-borne illnesses. Temperature monitoring and control during receiving, storage, preparation, and the service of foods are of equal importance.

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

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:

CENTER FOR FOOD SAFETY AND APPLIED NUTRITION FOOD AND DRUG ADMINISTRATION 1-888-SAFEFOOD

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

THERMOSTAT ACCURACY

The electronic thermostat is a precise instrument and is designed to offer trouble free service. If you suspect the temperature inside the holding compartment does not match the temperature indicated on the digital display, follow the instructions listed below.

- **1.** Check to make certain the unit voltage matches the power source. A power source less than that required to operate the unit will result in inaccurate temperatures.
- **2.** Verify the temperature inside the holding compartment with a qualify thermal indicator.
 - **A.** With the exception of the wire shelves, completely empty the holding compartment.
 - **B.** Make certain the holding cabinet sensor, located inside the holding compartment at the left side of the unit, is completely clean.
 - **C.** Suspend the thermal indicator in the center of the holding compartment.
 - **D.** Allow the temperature set on the electronic thermostat to stabilize for a minimum of one hour before comparing the digital display with the reading on the thermal indicator.

DO NOT OPEN THE CABINET DOOR(S) DURING THE TEMPERATURE STABILIZATION PERIOD.

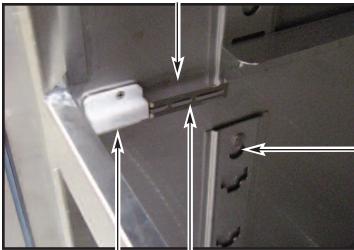
If the reading on the thermal indicator does not match the digital display, there may be a problem with the air sensor. See troubleshooting guide in this manual; or call the factory service department for advice.





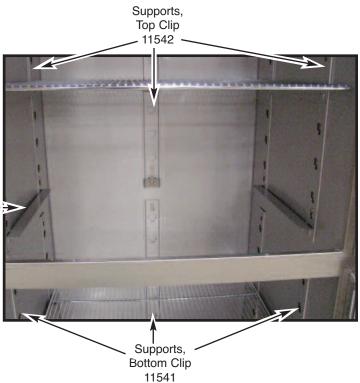


Temperature Probe PR-34494



Sensor Block Mount BK-27878

Sensor Guard 1008272



Shelf Slide

Stud for Clip Support ST-2547



Door Vents

SERVICE PARTS LIST

| Description | 1000-BQ2/96 Qty | 1000-BQ2/128 Qty | 1000-BQ2/192 Qty |
|--|--|---|--|
| Control panel Panel overlay LH Panel overlay RH | PE-27940 | 5006825 PE-27940 | PE-27940 |
| Casing, side LH Casing, side RH Back, casing Back, casing RH Top Bumper, aluminum, 120V/208V | 5006744 | | |
| Bumper, aluminum, 230V Bumper, rubber perimeter Bumper, aluminum frame, 120V/208V Bumper, aluminum frame, 120V/208V, rea | 14980 | | 14983 BM-2476616' |
| Bumper, aluminum frame, 120V/208V, fro Bumper, aluminum frame, 230V Bumper, aluminum frame, 230V, front Bumper, aluminum frame, 230V, rear | nt | | BM-27495 BM-28032 |
| Shelf Slide for shelf Clip, shelf Support, clip, bottom Support, clip, top Mounting stud for support Guard for sensor | 10618 | SH-22727 4 .1061 8 .11533 4 .11541 .5 .11542 .5 .ST-2547 .20 .1008272 | |
| Plate, cord grip | 11772 | 11772 | |
| Block, mounting sensor Block, terminal Cable, heating, 120V Cable, heating, 208/240V Control, manual Cordset, 120V Cordset, 208V Cordset, 230V | BK-3019 | BK-27878 .BK-3019 .4881 .2 .4879 .CC-34488 .CD-3397 .CD-3551 .CD-3922 | BK-3019 48801/cavity CC-34488 See list below* CD-3551 |
| Knob, control Probe Switch, 208V, 230V power Switch, 120V power | PR-34494 | .KN-26568 .PR-34494 .SW-34351 .SW-34375 | PR-34494 SW-34351 |
| Caster, 6" (152mm) rigid Caster, 6" (152mm) swivel/brake Caster mount screws | CS-2231 | CS-2042 CS-2231 SC-235116 . | |
| Door assembly Gasket for door Handle for door Handle, plastic transport Hinge Hinge, insert Shim, hinge Cover for vent | GS-27879 2 HD-2566 2 HD-26792 4 HG-2015 2 HG-22672 4 13675 8 | | .5001330 .4 .GS-27879 .4 .HD-2566 .4 .HD-26792 .4 .HG-2015 .4 .HG-22672 .4/door .13675 .16 .13253 .8/door |
| Insulation for cable kit Insulation | | IN-22364 | |
| *Cordset, 120V for 1000-BQ2/ 192 Cordset, 10/3, SJEOW-A Cordset, 12/3 SJO, 20A Connector, body, twist Connector, body, twist Inlet, male, twist, 30A Inlet, male, twist, 20A Switch, toggle, 3PDT, 3 | | | CD-3397 CR-3308 CR-3724 IT-3306 IT-3723 |

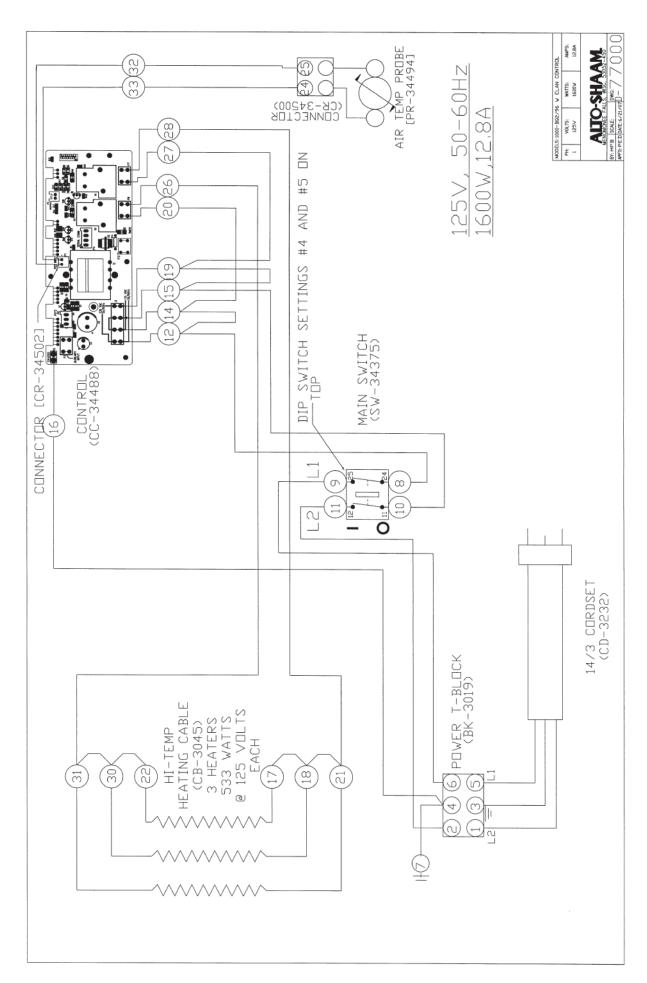
| 1000-BQ2/ | eating Replacement Service Kit 96 (125V) requires one (1) kit (129' of cable) 192 (125V) requires one (1) kit for one (1) cavity or two (2) kits for both cavities (129' of cable per cavity) |
|------------|--|
| Service ki | t includes: |
| CB-3045 | Cable Heating Element |
| CR-3226 | Ring Connector |
| IN-3488 | Insulation Corner |
| BU-3105 | Shoulder Bushing |
| BU-3106 | Cup Bushing4 |
| SL-3063 | Insulating Sleeve4 |
| TA-3540 | High Temperature Electrical Tape 1 roll |
| ST-2439 | 10.32 Stud |
| NU-2215 | Hex Nut |

| Cable Heating Replacement Service Kit No. 4881 1000-BQ2/ 96 (208-240V) requires one (1) kit (204' of cable) 1000-BQ2/ 128 (120V) requires two (2) kits (360' of cable) 1000-BQ2/ 192 (208-240V) requires one (1) kit for one (1) cavity or two (2) kits for both cavities (204' of cable per cavity) | | |
|--|--|--|
| Service kit includes: | | |
| CB-3045 | Cable Heating Element210 feet | |
| CR-3226 | Ring Connector12 | |
| IN-3488 | Insulation Corner1 foot | |
| BU-3105 | Shoulder Bushing12 | |
| BU-3106 | Cup Bushing12 | |
| SL-3063 | Insulating Sleeve12 | |
| TA-3540 | High Temperature Electrical Tape1 roll | |
| ST-2439 | 10.32 Stud12 | |
| NU-2215 | Hex Nut | |

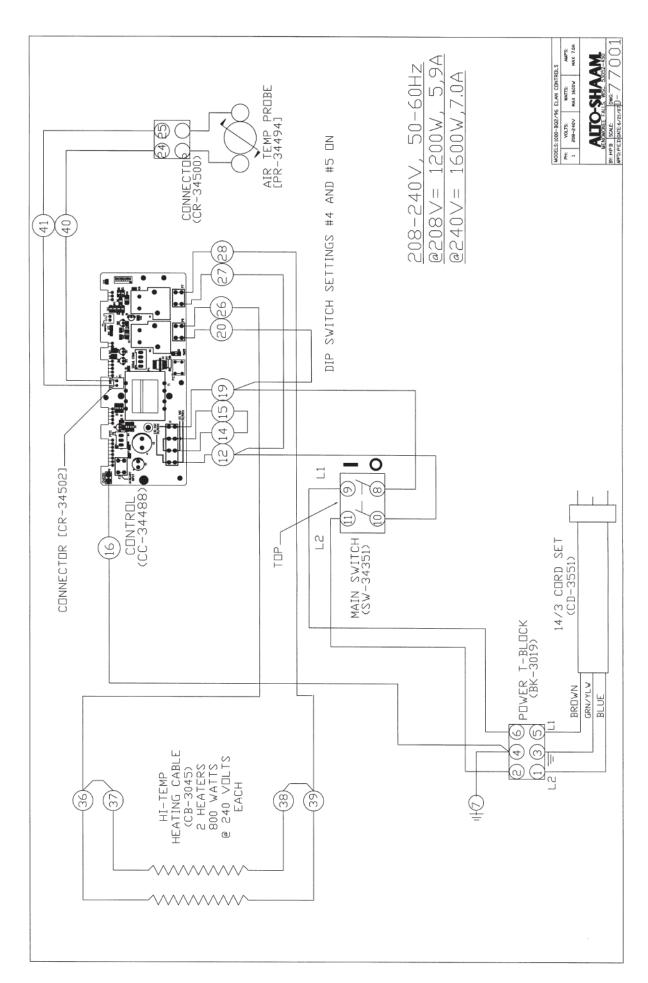
| Cable Heating Replacement Service Kit No. 4879 1000-BQ2/ 128 (208-240V) requires one (1) kit (120' of cable) | | |
|--|----------------------------------|--|
| Service k | kit includes: | |
| CB-3045 | Cable Heating Element | |
| CR-3226 | Ring Connector6 | |
| IN-3488 | Insulation Corner | |
| BU-3105 | Shoulder Bushing6 | |
| BU-3106 | Cup Bushing6 | |
| SL-3063 | Insulating Sleeve6 | |
| TA-3540 | High Temperature Electrical Tape | |
| ST-2439 | Stud 10.32 | |
| NU-2215 | Hex Nut | |



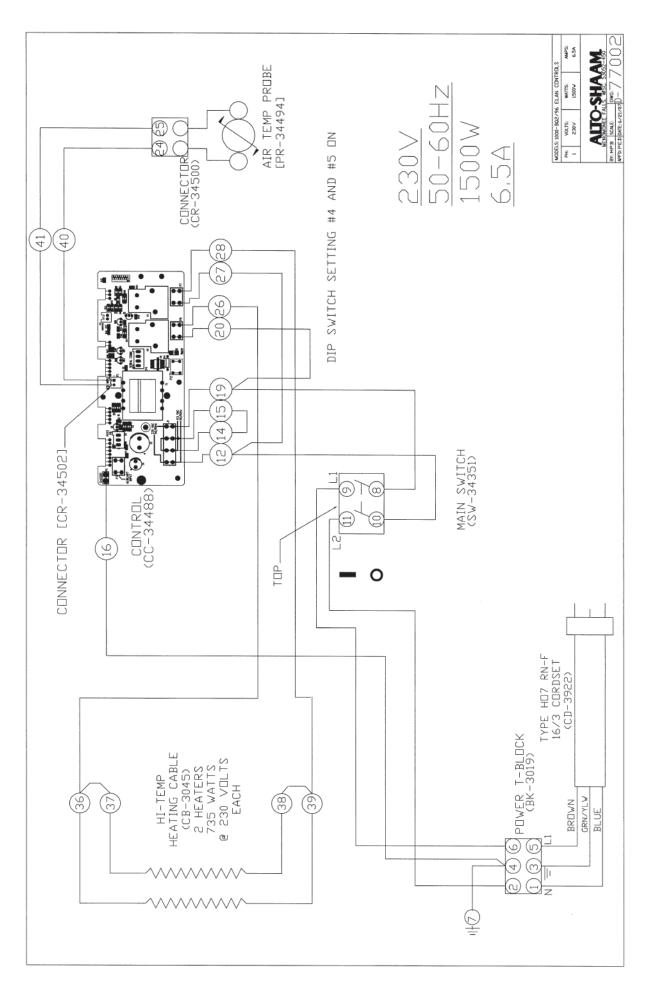




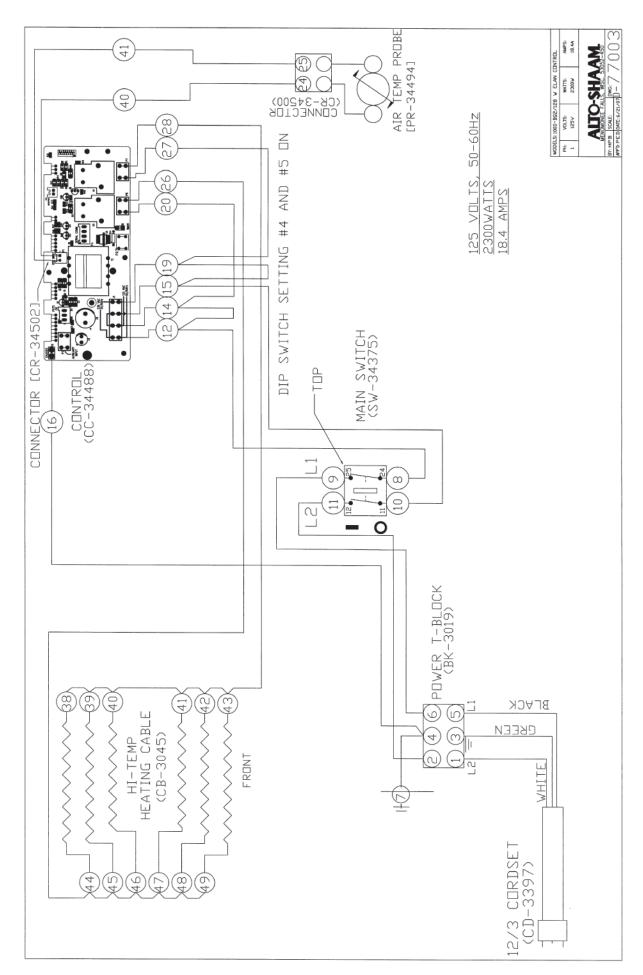
#845-8 • INSTALLATION/OPERATION/SERVICE MANUAL • 18.



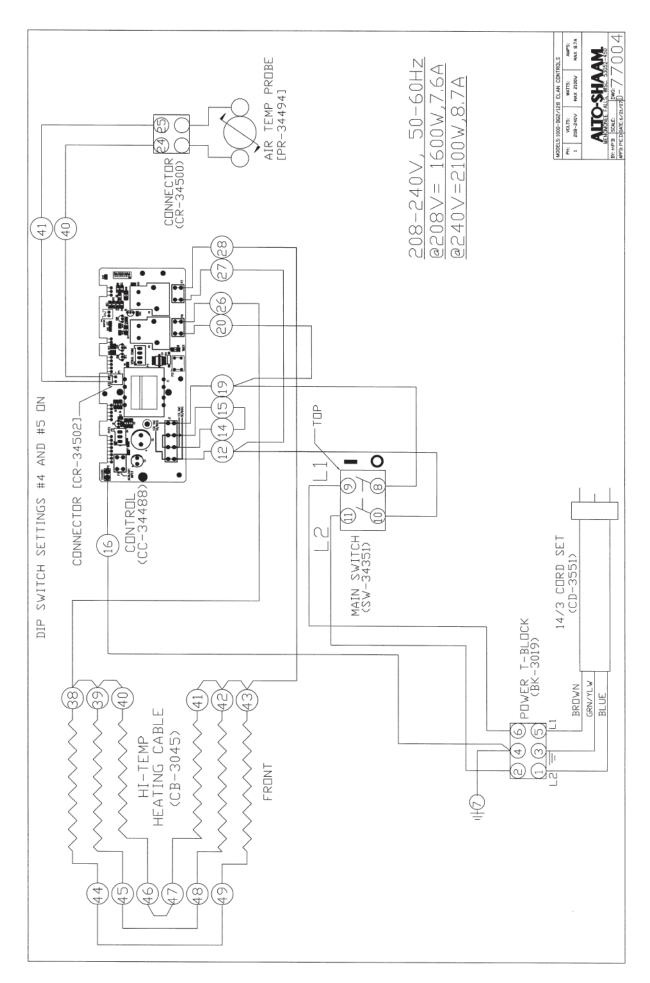
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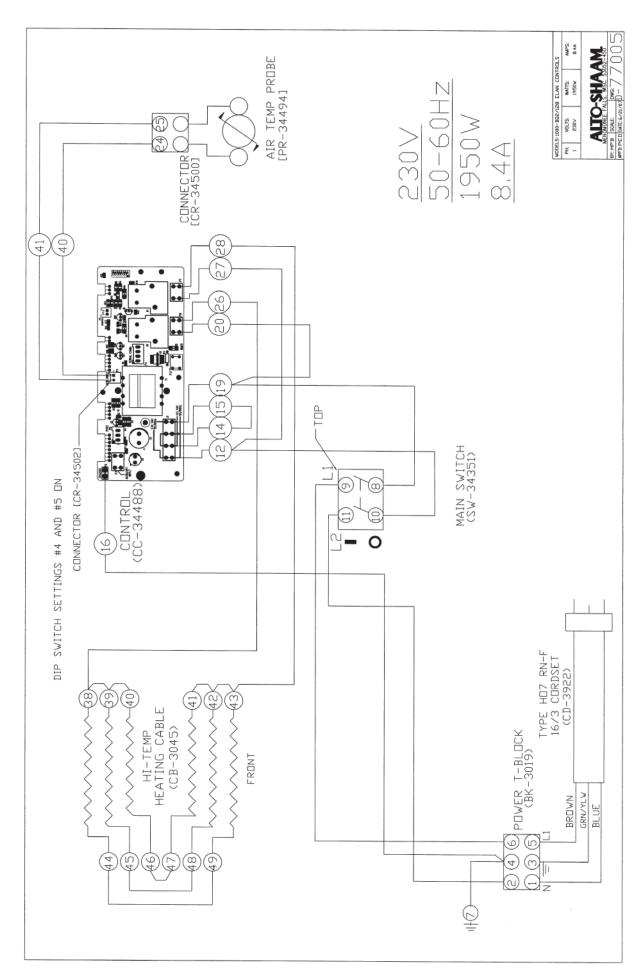
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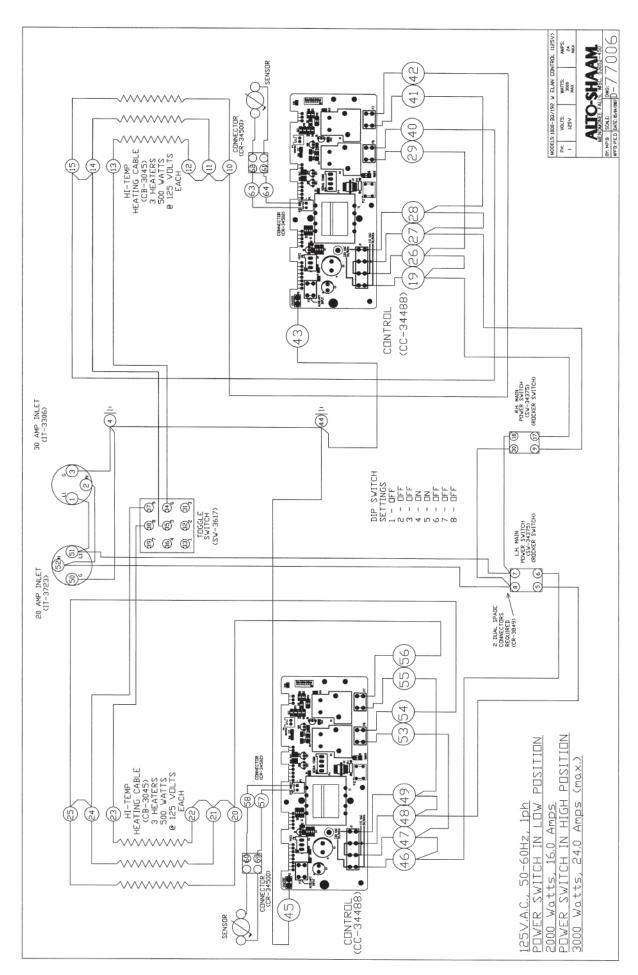
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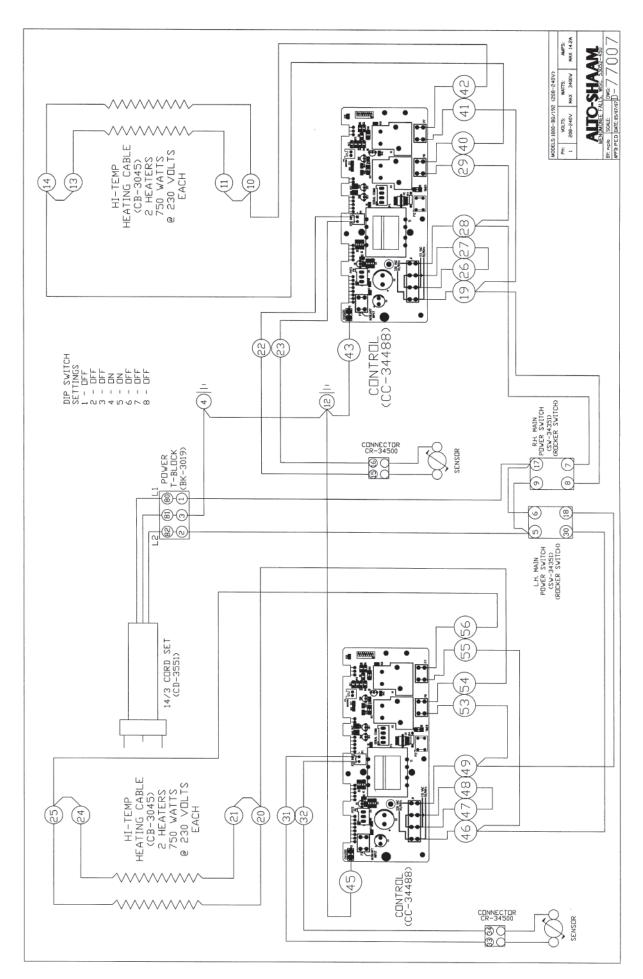
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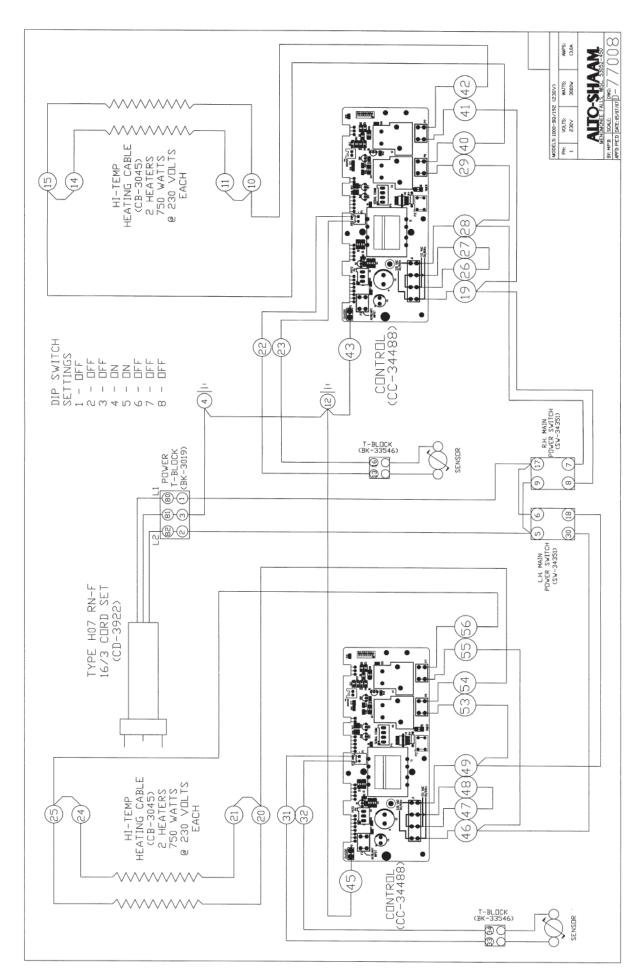
#845-8 • INSTALLATION/OPERATION/SERVICE MANUAL • 23.



#845-8 • INSTALLATION/OPERATION/SERVICE MANUAL • 24.



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#845-8 • INSTALLATION/OPERATION/SERVICE MANUAL • 26.

TRANSPORTATION DAMAGE and CLAIMS



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

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

- 1. Make an immediate inspection while the equipment is still in the truck or immediately after it is moved to the receiving area. Do not wait until after the material is moved to a storage area.
- 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.
- 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.

- 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, Inc. warrants to the original purchaser 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 labor warranty remains in effect one (1) year from installation or fifteen (15) months from the shipping date, whichever occurs first. Alto-Shaam will bear normal labor charges performed during standard business hours, and excluding overtime, holiday rates or any additional fees.

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

However, the heating element on Halo $\operatorname{Heat}_{\circledcirc}\operatorname{cook}/\operatorname{hold}\operatorname{ovens}$ and the refrigeration compressor on Alto-Shaam Quickchillers_™ are warranted for a period of five (5) years from installation. The labor warranty is the same as stated above; namely, for one (1) year from installation or fifteen (15) months from the shipping date, whichever occurs first.

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 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 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, expressed 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 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.

ALTO-SHAAM, INC.

| | RECORD THE MODEL AND SERIAL NUMBER OF THE APPLIANCE FOR EASY REFERENCE. ALWAYS REFER TO BOTH MODEL AND SERIAL NUMBER IN ANY CONTACT WITH ALTO-SHAAM REGARDING THIS APPLIANCE. |
|----------------|---|
| Model: | Date Installed: |
| Voltage: | Purchased From: |
| Serial Number: | |