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.



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.

- 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.

ENVIRONMENTAL CONDITIONS

- Operational Environmental Conditions
- Unit must acclimate to room temperature in the environment it will be 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.

INSTALLATION

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.

CAUTION

METAL PARTS OF THIS EQUIPMENT BECOME EXTREMELY HOT WHEN IN OPERATION. TO AVOID BURNS, ALWAYS USE HAND PROTECTION WHEN OPERATING THIS APPLIANCE.





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DO NOT store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.

The Alto-Shaam cook and hold oven must be installed in a location that will permit the oven to function for its intended purpose and to allow adequate clearance for ventilation, proper cleaning, and maintenance access.



- **1.** The oven must be installed on a stable and level surface.
- **2. DO NOT** install this oven in any area where it may be affected by any adverse conditions such as steam, grease, dripping water, high temperatures, etc.
- **3. DO NOT** store or use any flammable liquids or allow flammable vapors in the vicinity of this oven or any other appliance.
- **4.** This appliance must be kept free and clear of any combustible materials.
- **5.** This appliance must be kept free and clear of any obstructions blocking access for maintenance or service.

MINIMUM CLEARANCE REQUIREMENTS				
	COMBUSTIBLE SURFACES	NON-COMBUSTIBLE SURFACES		
BACK	3" (76mm)	3" (76mm)		
LEFT SIDE	1" (25mm)	1" (25mm)		
RIGHT SIDE	1" (25mm)	1" (25mm)		
ТОР	2" (51mm)	2" (51mm)		

SITE INSTALLATION

Emissions testing conducted by Underwriters Laboratories, Inc.® was found to be in compliance with the applicable requirements of NFPA96: 2004 Edition, Par. 4.1.1.2. U.L emissions sampling of grease laden vapor resulted in a total of 0.55 milligrams per cubic meter with no visible smoke and is considered representative of all oven models in the line. Based on these results, hood installation and/or outside venting should not be a requirement in most areas. Verify local codes for locations where more restrictive codes are applicable.

INSTALLATION

SITE INSTALLATION



Model >	500-TH-II	750-TH-II
Net Weight	130 lb (59 kg)	194 lb (264 kg)
Ship Weight	166 lb (75 kg)	264 lb (120 kg)
Product/Pan Capacity	40 lb (18kg) maximum	100 lb (45kg) махімим
	volume maximum: 30 quarts (38 liters)	volume maximum: 75 quarts (95 liters)

OPERATING INSTRUCTIONS

USER SAFETY INFORMATION

CAUTION



METAL PARTS OF THIS EQUIPMENT BECOME EXTREMELY HOT WHEN IN OPERATION. TO AVOID BURNS, ALWAYS USE HAND PROTECTION WHEN OPERATING THIS APPLIANCE.

START-UP OPERATION

BEFORE INITIAL USE:

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

- 1. Wipe all wire shelves, side racks and the full oven interior with a clean, damp cloth. Install the oven side racks, oven shelves, and external drip tray. Shelves are installed with the curved edge toward the back of the oven. Insert the drip pan on the interior bottom surface of the oven.
- **2.** Close the oven doors, press the power switch to the on position, and set the thermostat to 300°F (149°C).
- **3.** Allow the oven to cycle for approximately 2 hours or until no odor is detected.

This appliance is intended for use in commercial establishments by qualified operating personnel 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.

PREHEATING:

Always preheat the oven for a minimum of 20 minutes before cooking product. Follow the operating instructions indicated on the next page of this manual.



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

DANGER



APPLIANCES WITH NO CORD PROVIDED BY FACTORY MUST BE EQUIPPED WITH A CORD OF SUFFICIENT LENGTH TO PERMIT THE APPLIANCE TO BE MOVED FOR CLEANING.



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

LOCK-OUT OR POST Breaker Panel Until Service Work Has Been Completed.

DANGER



ENSURE POWER SOURCE MATCHES VOLTAGE IDENTIFIED ON APPLIANCE RATING TAG.

OPERATING INSTRUCTIONS

COOK & HOLD



COOK/HOLD/SMOKE



OPERATING INSTRUCTIONS

1. Push power switch to ON (I) position. Control will display 0°F or 0°C.

2. Set the holding temperature.

- Rotate the hold knob to the desired holding temperature. The set temperature will appear in the Digital Display <u>140F</u> and the temperature display button will illuminate.
- The holding indicator light will illuminate while in hold mode.
- Holding temperature range: 60° to 205°F (16 to 96°C)

3. Set the cooking temperature.

- Rotate the cook knob to the desired temperature. The set temperature will appear in the Digital Display 250F and the temperature display button will illuminate.
- The cooking indicator light will illuminate while in cook mode.
- Cooking temperature range: 200° to 325°F (94 to 160°C)
- **Note:** Cooking mode not active unless timer is running.

4. Set timer.

- Press Up or Down arrows when cook knob is set to begin cooking.
- Press Up or Down arrows to adjust the time while cooking.
- Note: Hold timer button for 3 seconds when in cook mode to *cancel* timer (display shows
 ).
- 5. PREHEAT oven for 30 minutes before loading food. The heat indicator light will illuminate and will remain lit as long as the oven is calling for heat.
- 6. Load the oven with food and adjust cooking timer as needed.

7. Load wood chip container (Smoker only).

Take one container load of dry wood chips and soak the chips in water for 15 to 20 minutes. Shake excess water off wood chips. Remove wood chip container from the interior back panel of the smoker. Place the moistened chips in the wood chip container and replace the container in the oven.

8. Set the Smoke Timer (Smoker only).

The Smoke Timer activates the heating element located within the wood chip container. When the wood chip container is full and the smoking timer is turned clockwise as far as it will turn, the wood chips will smoke for approximately forty-five minutes to one hour.

- To set the Smoke Timer, turn the smoking timer knob past the required length of time, then immediately bring it back to the correct setting.
- Smoke Indicator Light will illuminate.
- Keep the oven door completely closed during the smoking cycle.

Notes:

- When the oven temperature reaches the set temperature, the heat indicator light will turn off.
- Press and hold the Temperature Display Button for 3 seconds at any time to display the *Actual* oven temperature **1907**.

To toggle between fahrenheit (°F) and celsius (°C):

Press the **Temperature Display Button** *at any time to display the alternate temperature.*

The factory default is Fahrenheit. To change to Celsius:

- **1.** Press and hold the Temperature Display Button and the Down Arrow Key for 5 seconds.
- **2.** The control will show $\underline{\mathcal{L}}$ for 3 seconds to verify selection and then show the temperature 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.

General Holding Guideline

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

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

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.

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° — 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				

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



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.

ACAUTION

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.

CARE AND CLEANING

EQUIPMENT CARE

Under normal circumstances, this oven should provide you with long and trouble free service. There is no preventative maintenance required, however, the following Equipment



Care Guide will maximize the potential life and trouble free operation of this oven.

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

CLEAN DAILY

- 1. Disconnect unit from power source, and let cool.
- Remove all detachable items such as wire shelves, side racks, and drip pans. Clean these items separately.



- 4. Clean the interior metal surfaces of the cabinet with a damp clean cloth or sponge and any good commercial detergent.
- **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.
- 5. Spray heavily soiled areas with a water soluble degreaser and let stand for 10 minutes, then remove soil with a plastic scouring pad.
- 6. Wipe control panel, door vents, door handles, and door gaskets thoroughly since these areas harbor food debris.
- 7. Rinse surfaces by wiping with sponge and clean warm water.

<u>^</u> D A N G E R

DISCONNECT UNIT FROM POWER SOURCE BEFORE CLEANING OR SERVICING.

- 8. Remove excess water with sponge and wipe dry with a clean cloth or air dry. Leave doors open until interior is completely dry. Replace side racks and shelves.
- 9. Wipe door gaskets and control panel dry with a clean, soft cloth.
- 10. 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.
- 11. To help maintain the protective film coating on polished stainless steel, clean the exterior of the cabinet 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.
- 12. Clean any glass with a window cleaner.

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

CLEAN THE DOOR VENTS

Door vents need to be inspected and cleaned as required.

CHECK OVERALL CONDITION OF OVEN ONCE A MONTH

Check the oven once a month for physical damage and loose screws. Correct any problems before they begin to interfere with the operation of the oven.

DO NOT USE OVEN IF CONTROLS ARE NOT PROPERLY FUNCTIONING

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

DANGER



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WARRANTY BECOMES VOID IF APPLIANCE IS FLOODED



