

Heated Shelf Merchandiser





HSM-48/5S

HSM-24/5S



HSM-36/3S-CT



HSM-24/3S-CT

HOT FOOD HOLDING

HSM-48/5S HSM-36/5S HSM-24/5S HSM-48/4S HSM-36/4S HSM-24/4S HSM-36/3S-CT HSM-24/3S-CT

Operator's Manual

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Delivery

The Alto-Shaam merchandiser is thoroughly tested and inspected to ensure only the highest quality equipment is provided. Upon receipt, inspect for any possible shipping damage and report it at once to the delivering carrier. See the **Transportation Damage and Claims** section.

The merchandiser, complete with unattached items and accessories, may be delivered in one or more packages. Confirm that all standard items and options have been received as ordered. Save all the information packed with the merchandiser. Register online at

www.alto-shaam.com/en/support/warranty-registration 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 appliance. Contact the Alto-Shaam Tech Team Service Department with any questions concerning installation, operation, or maintenance.

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

Operational Environmental Conditions

- Before use, appliance must acclimate to room temperature in the environment it is placed 24 hours is recommended.
- Ambient temperature range of 60°F to 110°F (16°C to 43°C).
- Relative humidity of less than 95% non-condensation.
- Atmospheric pressure range of 50kPa to 106kPa.

The serial number is required for all inquiries.

Always include both model and serial number(s) in any correspondence regarding the appliance.

Model: _____

Serial number: _____

Purchased from: _____

Date installed:

_____ Voltage: ___



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.



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Transportation Damage and Claims



All Alto-Shaam equipment is sold Free on Board (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 appliance is still in the truck or immediately after it is moved to the receiving area. Do not wait until after the appliance is moved to a storage area.
- 2. Do not sign a delivery receipt or a freight bill until a proper count has been made and inspection of all appliances are received.

- 3. Note all damage to packages directly on the carrier's delivery receipt.
- 4. Make certain the driver signs the delivery receipt. If the driver 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. Contact the carrier's office immediately upon finding damage, and request an inspection. Mail a written confirmation to the carrier's office with 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.

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

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.





Alto-Shaam has established a twenty-four hour emergency service call center to offer immediate customer access to a local authorized service agency outside of standard business hours. The emergency service access is provided exclusively for Alto-Shaam equipment and is available throughout the United States through the use of Alto-Shaam's toll-free number. Emergency service access is available seven days a week including holidays.

Unpacking



•Remove the merchandiser from the carton or crate.

NOTE: Do not discard the carton and other packaging material until the merchandiser has been inspected for hidden damage and tested for proper operation.

Do not discard this manual. This manual is considered to be part of the merchandiser 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 service department.

- Read all instructions in this manual before installing the merchandiser, using the merchandiser or performing routine maintenance. Following procedures other than those indicated in this guide to use and clean the merchandiser is considered inappropriate and may cause damage, injury or fatal accidents, in addition to invalidating the warranty and relieving Alto-Shaam of all liability.
- Remove all protective plastic film, packaging materials, and accessories from the merchandiser before connecting electrical power. Store any accessories in a convenient place for future use.



	HSM-48/5S	HSM-36/5S	HSM-24/5S
Exterior Dimensions	79-7/8" x 48" x 27-5/16" (2029mm x 1219mm x 694mm)	79-7/8" x 36" x 27-5/16" (2029mm x 914mm x 694mm)	79-7/8" x 24" x 27-5/16" (2029mm x 609mm 694mm)
	Net: 563 lb (255 kg)	Net: 496 lb (225 kg)	Net: 406 lb (184 kg)
	Ship: 772 lb (350 kg)	Ship: 652 lb (296 kg)	Ship: 550 lb (249 kg)
Weight	Crate Dimensions (L x W x H): 56" x 63" x 89" (1422mm x 1600mm x 2261mm)	Crate Dimensions (L x W x H): 56" x 45" x 89" (1422mm x 1143mm x 2261mm)	Crate Dimensions (L x W x H): 36" x 36" x 89" (914mm x 914mm x 2261mm)
	HSM-48/4S	HSM-36/4S	HSM-24/4S
Exterior Dimensions	79-7/8" x 48" x 27-5/16" (2029mm x 1219mm x 694mm)	79-7/8" x 36" x 27-5/16" (2029mm x 914mm x 694mm)	79-7/8" x 24" x 27-5/16" (2029mm x 609mm x 694mm)
	Net: 555 lb (252 kg)	Net: 485 lb (220 kg)	Net: 395 lb (179 kg)
	Ship: 690 lb (313 kg)	Ship: 586 lb (266 kg)	Ship: 490 lb (222 kg)
Weight	Crate Dimensions (L x W x H): 56" x 63" x 89" (1422mm x 1600mm x 2261mm)	Crate Dimensions (L x W x H): 56" x 45" x 87" (1422mm x 1143mm x 2210mm)	Crate Dimensions (L x W x H): 36" x 36" x 84" (914mm x 914mm x 2134mm)
		HSM-36/3S-CT	HSM-24/3S-CT
Exterior Dimensions		45-3/4" x 36" x 27-5/16" (1162mm x 914mm x 694mm)	45-3/4" x 24" x 27-5/16" (1162mm x 609mm 694mm)
		Net: 311 lb (141 kg)	Net: 250 lb (113 kg)
		Ship: 417 lb (189 kg)	Ship: 300 lb (136 kg)
Weight		Crate Dimensions (L x W x H): 56" x 45" x 65" (1422mm x 1143mm x 1651mm)	Crate Dimensions (L x W x H): 36" x 36" x 60" (914mm x 914mm x 1524mm)



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.

To prevent injury or property damage: **Always** apply both caster brakes on mobile carts, appliances, or accessories when stationary. Appliances on casters can move or roll on uneven floors.

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Safety Procedures

- The merchandiser is intended to hold pre-packaged food for human consumption. No other use for this merchandiser is authorized by the manufacturer or its agents and is therefore considered dangerous.
- The merchandiser is intended for use in commercial establishments where all operators are familiar with the purpose, limitations, and associated hazards of this merchandiser. Operating instructions and warnings must be read and understood by all operators and users. Alto-Shaam recommends regular staff training to avoid the risk of accident or damage to the merchandiser. Operators must also receive regular safety instructions.
- Any troubleshooting 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 merchandiser. This manual and all supplied instructions, diagrams, schematics, parts lists, notices, and labels must remain with the merchandiser 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 signal words and symbols may be used throughout this manual.

DANGER

Indicates a hazardous situation that, if not avoided, will result in death or serious injury.

WARNING

Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

△ CAUTION

Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

NOTICE: Indicates information considered important, but not hazard-related (e.g., messages relating to property damage).

operation of equipment.

Indicates that referral to operating

instructions is recommended to understand



NOTICE: For equipment delivered for use in any location regulated by the following directive: 2012/95/EC WEEE

Do not dispose of electrical or electronic equipment with other municipal waste.

Safety Procedures



- To prevent serious injury, death or property damage, the merchandiser 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 the merchandiser. 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 merchandiser, observe precautions in the literature, on tags, on labels attached to or shipped with the merchandiser and other safety precautions that may apply.
- If the merchandiser is installed on casters, freedom of movement of the merchandiser must be restricted so that utility connections (electricity) cannot be damaged when the merchandiser is moved. If the merchandiser is moved, make sure all utility connections are disconnected. When returning the merchandiser to its original position, make sure that retention devices and utility connections are connected.
- **Only** use the merchandiser when it is stationary. Merchandisers on casters can tip over when being moved over an uneven floor or threshold and cause serious injury.
- Always apply caster brakes on mobile merchandisers when these are not being moved. These items could move or roll on uneven floors and cause property damage or serious injury.
- Be extremely careful when moving merchandisers because the food trays may contain hot fluids that may spill, causing serious injury.

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.

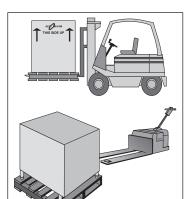


Installation

This merchandiser, and any accessories, may be delivered in one or more packages. Make sure all accessories that were ordered have been received.

Lift the merchandiser from the pallet with a fork lift truck positioned at the rear of the merchandiser. Care must

be taken when moving the merchandiser into position to protect the glass components. Floorstanding merchandisers have heavy-duty, swivel casters with brakes.



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

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.

Alto-Shaam heated shelf merchandisers are designed for the purpose of holding hot food at a temperature for safe consumption. The merchandiser must be installed on a level surface in a location that will permit the equipment to function for its intended purpose and allow adequate access for proper cleaning and maintenance.

Level the merchandiser from side to side and front to back.



Do not install the merchandiser near a cold air source, such as a freezer, air conditioning vents, or in any area where outside air fluctuation can affect performance. This merchandiser must not be affected by steam, grease, dripping water, high temperatures, or any other adverse conditions.

In order to maintain NSF standards, floor models must be equipped with casters or 6" (152mm) legs and countertop models must be equipped with 4" (102mm) legs or sealed at the bottom by NSF approved sealant.

CLEARANCE REQUIREMENTS

4" (102mm) rear clearance

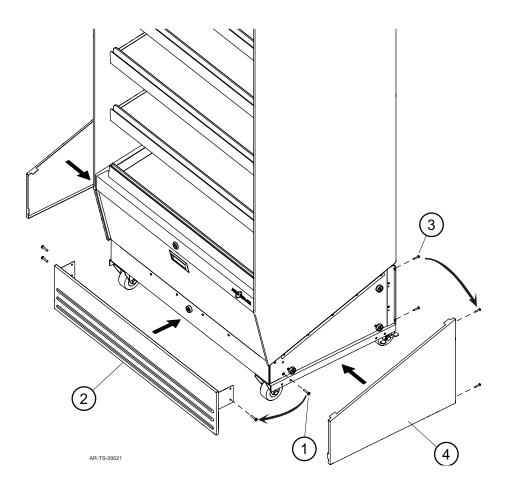
Installation/Retrofit



Installing the skirt on a floor model merchandiser

Merchandisers with caster include three skirt panels that need to be installed once the merchandiser is in position.

- To install the skirt panels, do the following.
- 1. Remove the screws (a).
- 2. Slide the front skirt panel (b) into position and secure it with the screws removed in step 1.
- 3. Remove the screws (c) from the rear of the merchandiser.
- 4. Slide the side skirt (d) into position and secure it with the screws removed in step 3.
- 5. Repeat for the other side skirt.

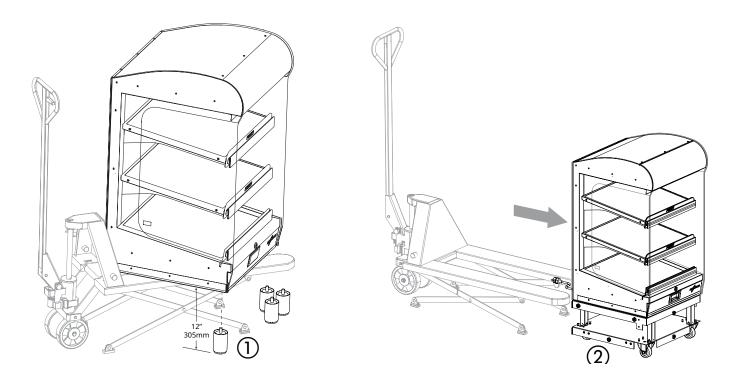


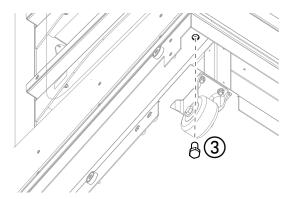


Adding a display base to an existing countertop merchandiser

The optional display base adds 8" (203mm) to the overall height of a countertop merchandiser. To install a display base on an existing countertop model with standard legs, do the following.

- 1. Place the merchandiser so that the bottom panel rests on a lifter or platform set at a height of 12" (305mm). It may be necessary to place the merchandiser at an angle so that all four legs can be removed.
- 2. Unscrew the four legs ①.
- 3. Place the display base frame (2) next to the lifter or platform.
 - a. If the display base has casters, make sure the brakes are set.
 - b. If the display base has legs, make sure they are set to a height of at least 4.33" (110mm).
- 4. Slide the merchandiser onto the frame. Make sure all sides line up.
- 5. Use four SC-27441 screws (3) to secure the merchandiser to the display base.
- 6. Position the merchandiser where it will be displayed. **NOTE:** The steps to install the skirt panels are on the next page.





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Installation/Retrofit

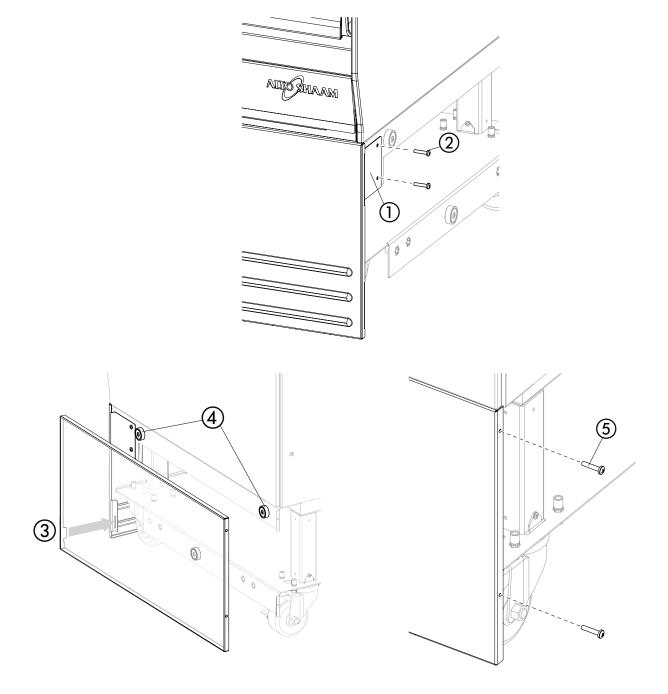


Installing the skirt on a countertop merchandiser display base

Merchandisers with the optional display base include three skirt panels. Install the panels after you have positioned the merchandiser where it will be displayed.

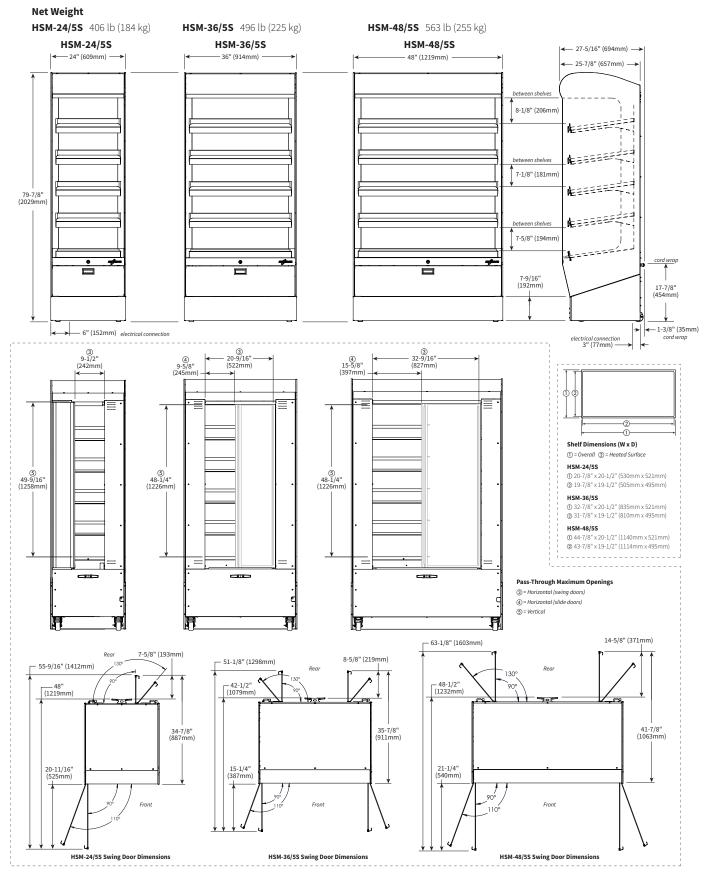
To install the display base skirt panels, do the following.

- 1. Position the front skirt panel so the holes in the side flanges ① line up with the screw holes in the side of the display base. The magnet on the front of the display base holds the panel in place.
- 2. Use two screws (2) on each side to secure the front panel to the display base.
- 3. Slide the flanges ③ on the two side panels into the slots in the front panel. The magnets ④ on the side of the display base hold the side panels in place.
- 4. Use two screws (5) to secure the side panel to the display base.





HSM-24/5S, HSM-36/5S, HSM-48/5S

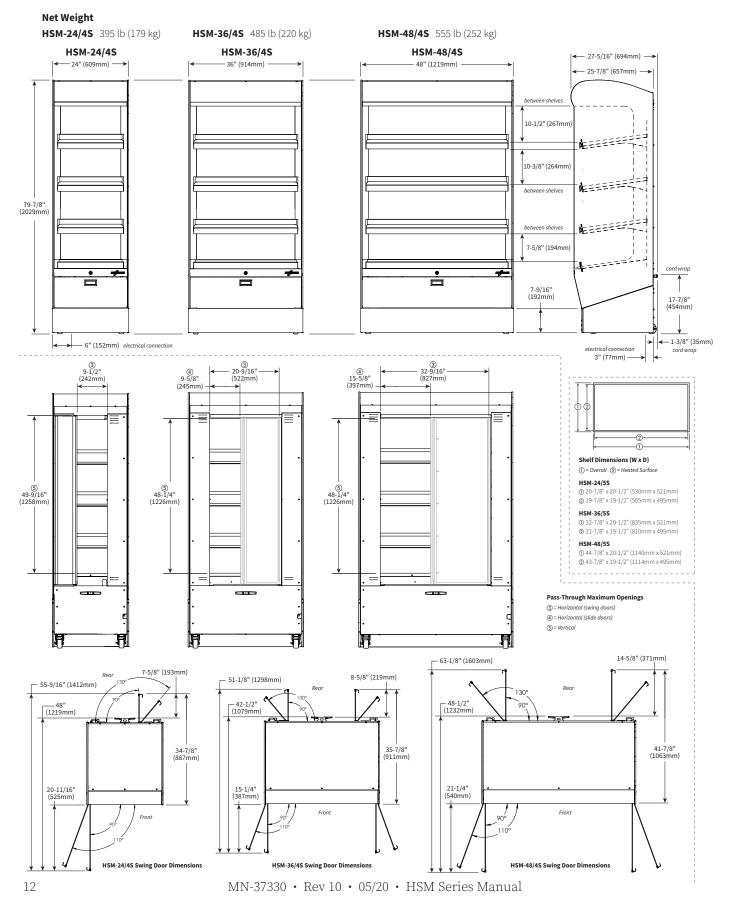


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Dimensions

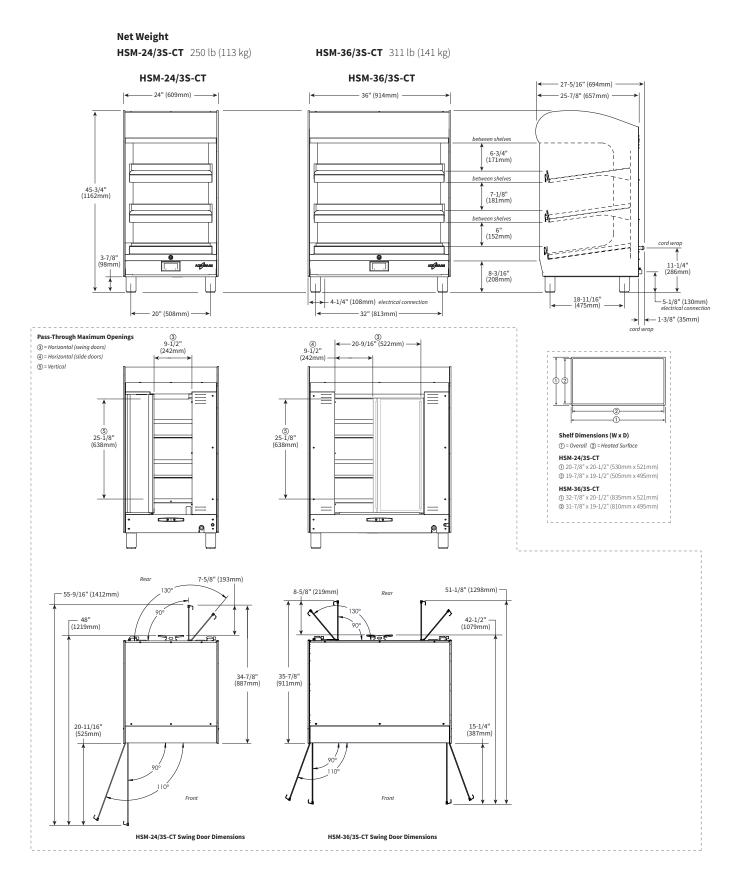


HSM-24/4S, HSM-36/4S, HSM-48/4S





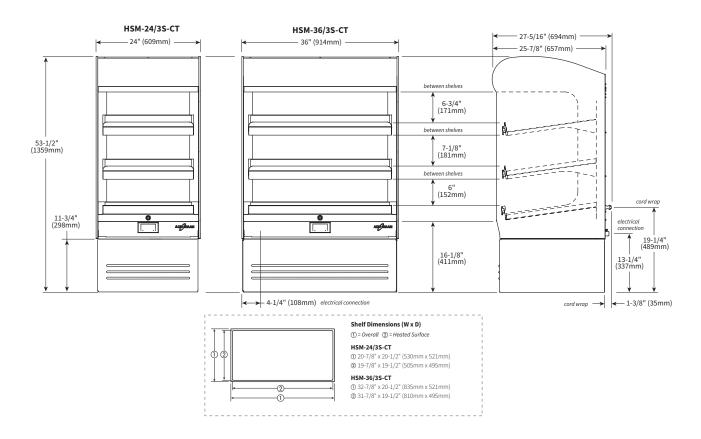
HSM-24/3S-CT, HSM-36/3S-CT



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HSM-24/3S-CT, HSM-36/3S-CT with Optional Display Base



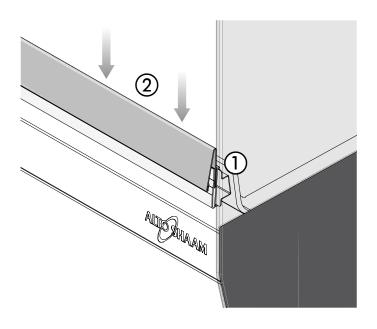
Installing the optional shelf insert for magnetic signage panels

NOTE: the optional shelf insert allows magnetic signage panels to be used on the merchandiser shelves. The insert can be removed at any time.

NOTE: magnetic signage panels must be provided by the customer.

Repeat these steps for every shelf where you want to use magnetic signage panels.

- 1. Open the plastic shelf guard ① slightly.
- 2. Slide the shelf insert (2) down into the shelf guard until it sets firmly in place. Release the shelf guard.
- 3. Press down along the entire length of the insert to make sure it is fully seated. Make sure that the shelf guard holds the insert tightly in place.





An identification tag is permanently mounted on the cabinet.

Permanent wiring or electrical outlets for this merchandiser must be installed by a licensed electrician in accordance with local, country, or national codes.

This merchandiser must be connected to a dedicated circuit: (see below)

HSM-48 — 30 Amp circuit

HSM-36 — 20 Amp circuit

HSM-36-3S/CT - 15 or 20 Amp circuit

HSM-24 - 20 Amp circuit

HSM-24-3S/CT - 15 or 20 Amp circuit

In the event of an emergency, always position the merchandiser so the power supply cord is easily accessible. Plug the unit into a properly grounded receptacle **only**. Arcing will occur when connecting or disconnecting the unit unless all controls are in the **off** position.

Hard wired models

Hard wired models must be equipped with a country certified external allpole disconnection switch with sufficient contact separation. Hard wired models that are mounted on casters must have a strain relief device (tether) to prevent strain on the power supply cord. 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.



<u>A</u> CAUTION

Power source must match 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.



CE-approved appliances include an equipotential-bonding terminal marked with the symbol shown on the left. Provisions for earthing are to be made in accordance with IEC:2010 60335-1 section 27 or local codes.

Electrical Grounding Instructions:

This appliance may be equipped with a three-pronged (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle.

Do not cut or remove the grounding prong from this plug. Removing the grounding prong may result in serious injury, death or property damage.

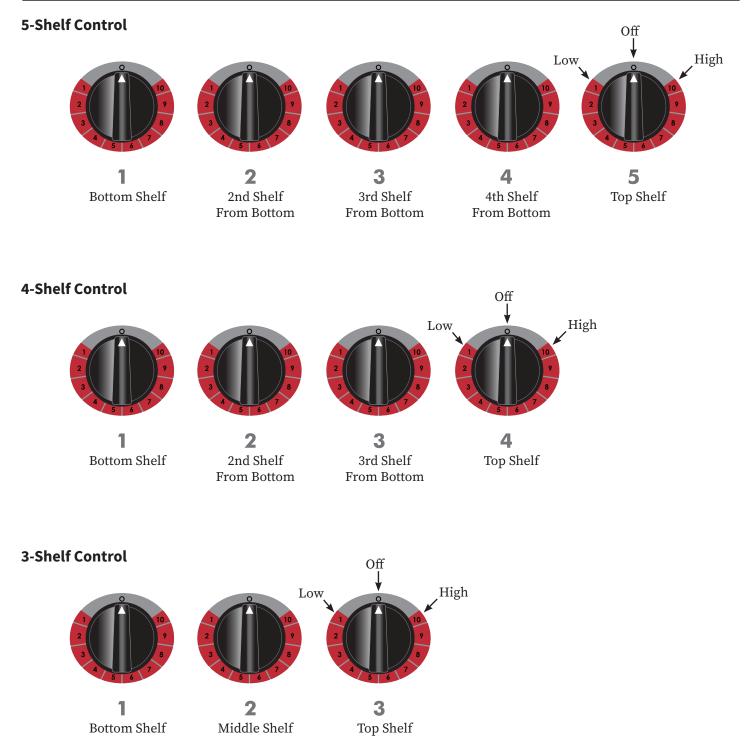
Electrical



lectrical							
	v	Ph	Hz	А	kW	Dedicated Circuit Breaker	Plug Configuration
	208 - 240	1	60	19.0 - 21.9	4.0 - 5.3	30	cord, no plug
HSM-48/5S	230	1	50/60	20.0	4.6	30	cord, no plug
	208 - 240	1	60	14.4 - 16.7	3.0 - 4.0	20	cord, no plug
HSM-36/5S	230	1	50/60	15.0	3.5	20	CEE 7/7
HSM-24/5S	208 - 240	1	60	10.8 - 12.5	2.3 - 3.0	20	• I NEMA 6-20P • 20A - 250V PLUG
	230	1	50/60	11.5	2.9	20	CEE 7/7
HSM-48/4S	208 - 240	1	60	15.5 - 17.9	3.2 - 4.3	30	cord, no plug
HSM-36/4S	208 - 240	1	60	11.6 – 13.3	2.4 - 3.2	20	cord, no plug
HSM-24/4S	208 - 240	1	60	8.7 – 10.0	1.8 - 2.4	20	• 1 NEMA 6-20P • 20A - 250V PLUG
	208 - 240	1	60	8.8 - 9.2	1.9 – 2.5	20	••• NEMA 6-15P ••• NEMA 6-20P •• 20A - 250V PLUG
HSM-36/3S-CT	230	1	50/60	9.0	2.1	20	CEE 7/7 (I) CH2-16P 🖽 BS 136
	120	1	60	15.0	1.8	20	• NEMA 5-20P • 20A - 125V plug
HSM-24/3S-CT	208 - 240	1	60	6.5 - 7.5	1.4 - 1.8	20	• • NEMA 6-15P • 15A - 250V PLUG • 20A - 250V PLUG
	230	1	50/60	7.0	1.8	20	CEE 7/7 (1) CH2-16P BS 136

Wire diagrams are included in the literature package supplied with the merchandiser.

Control Identification



CHEF TIP: Use the top shelf for the highest heat assignment, and the bottom shelf for the lowest heat assignment. The proper temperature range for the food being held depends on the food type, the packaging, and the quantity of product. Apply the first item in, first item out method to all merchandisers. Wipe spills immediately with hot water and a mild soap to minimize end-of-the-day cleanup.

Operation



User Safety Information

The multi-shelf hot food holding merchandiser has heated shelves intended to be used with pre-packaged hot food. All operators must be familiar with the purpose, limitations, and associated hazards of this merchandiser. Operating instructions and warnings must be read and understood by all operators and users.

Before Initial Use:

- 1. Remove all packing material from the merchandiser.
- 2. Remove and wash any detachable items with hot, soapy water. Dry with a clean, damp lint-free cloth.
- 3. Remove all visible grease or oil from the merchandiser.
- 4. Clean the interior and exterior of the merchandiser with a mild soap and water solution. Apply the solution with a clean, damp cloth. Do not use commercial or household cleaners that contain ammonia. Wipe with a clean, damp cloth to remove all detergent residue. Dry with a clean, lint-free cloth.
- 5. Clean the merchandiser glass with glass cleaner or distilled vinegar.
- 6. Operate the merchandiser without food for a period of 15 minutes using setting 9 to remove surface oils and any accompanying odor.

Special Instructions:

- 1. Do not allow liquids or food to come in direct contact with the anodized-aluminum shelves.
- 2. Use hand protection when handling hot items.
- 3. Be certain that any hot foods are in the appropriate high-temperature heat-tested containers.
- 4. It is recommended that plastic or paper containers be used. Pans or dishes can scratch the anodized-aluminum.
- 5. Do not overheat, this may cause some containers to melt.
- 6. Do not stack containers.

Heating Characteristics

The heated anodized-aluminum surface provides even heat transfer. Hot food in heat-tested containers are in direct contact with the anodized-aluminum top.

To prevent personal injury, property damage, or damage to the merchandiser:

Treat the glass with care. Glass can shatter or chip.



To prevent **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.

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Operation

- 1. Make sure the merchandiser is connected to the appropriate power source.
- 2. Locate the power switch below the top canopy on the left side of the merchandiser.
- Press the power switch to the ON () position. 3.
- Turn the control panel door latch with a coin or flat head 4. screwdriver.
- Use the control panel door handle to pull the door open. 5.
- Turn the thermostat knob(s) to a predetermined number 6. and preheat the merchandiser for 30 minutes.

Each shelf has a thermostat control numbered from 1 to 10, with 10 being the hottest. When the thermostat is turned clockwise to the determined number, the indicator light-found above each shelf-illuminates and remains illuminated as long as the shelf is being heated.

- Before loading food into the merchandiser, use a meat 7. thermometer to make certain all food products have reached an internal temperature of 160°F (71°C) or higher. If any food product is not at the proper serving temperature, use a Halo Heat® cooking and holding oven or Combitherm® oven to bring the food product within the correct temperature range.
- Load pre-packaged hot foods into the merchandiser. 8. Periodically check the internal temperature of each food item to ensure maintenance of the proper temperature range.









2 2nd Shelf From Bottom



3 3rd Shelf From Bottom

4th Shelf From Bottom



4

4 Top Shelf



1

Bottom Shelf







2

2nd Shelf

Middle Shelf

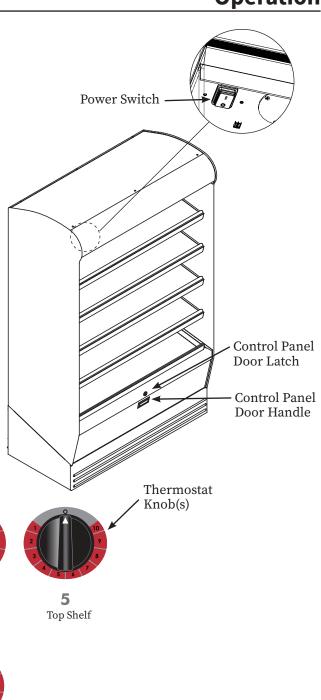




3

3rd Shelf





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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.

In an enclosed holding environment, too much moisture content is a condition which can be relieved. A product achieving extremely high temperatures in preparation must be allowed to decrease in temperature before being placed in a controlled holding atmosphere. If the product is not allowed to decrease in temperature, excessive condensation will form increasing the moisture content on the outside of the product. 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 merchandiser is equipped with a thermostat indicating a range of between 1 and 10. Use a metalstemmed thermometer to measure the internal temperature of the food 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.					

ALTO SHAAM



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 per 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. Failure to observe this precaution will void the warranty. Always use the proper cleaning agent at the manufacturer's recommended strength. Contact your local cleaning supplier for product recommendations.

Cleaning Materials

Cleaning can usually be accomplished with the proper cleaning agent and a soft, clean cloth. When more aggressive methods are needed, use a nonabrasive 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. Failure to observe this precaution will void the warranty.



NOTICE

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.

To prevent serious personal injury, death, or property damage:

The appliance must be cleaned thoroughly to avoid deposits of grease and or food residue inside the appliance that may catch fire. If fat deposits and/or food waste inside the appliance ignite, shut down the appliance immediately and keep the appliance door closed to extinguish the fire. If further extinguishing is required, disconnect the appliance from the main power and call the fire department. Failure to clean the appliance properly voids the warranty and relieves Alto-Shaam of all liability.

Cleaning and Preventative Maintenance



How to Clean the Merchandiser.

- 1. Press the On/Off switch to the OFF (O) position. Disconnect the merchandiser from the power source. Allow the merchandiser to cool.
- 2. Remove, cover or wrap, and store food product under refrigeration.
- Clean the exterior of the merchandiser with a mild soap and water solution. Apply the solution with a clean, damp cloth. Do not use commercial or household cleaners that contain ammonia.
 Wipe with a clean, damp cloth to remove all detergent residue. Dry with a clean, lint-free cloth. Clean the exterior of the cabinet with a cleaner recommended for stainless steel surfaces to maintain the protoc



steel surfaces to maintain the protective film coating on any polished stainless steel.

- 4. Clean the anodized-aluminum shelves and other interior components with a mild soap and hot water.
- 5. Spray heavily-soiled areas with a water-soluble degreaser and let stand for 10 minutes, then remove the soil with a plastic scouring pad.
- 6. Clean the control panel, vents, handles, and gaskets thoroughly since these areas harbor food debris.
- NOTICE: Never use of abrasive cleaning compounds, chloride based cleaners, or cleaners containing quaternary salts.

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

- 7. Wipe the interior surfaces with a sanitizing solution after cleaning and rinsing. This solution must be approved for use on food contact surfaces.
- 8. Clean the merchandiser glass with glass cleaner or distilled vinegar.

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

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

Electric shock hazard.

4

Perform lockout/tagout procedures before cleaning or servicing this appliance.

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Cleaning and Preventative Maintenance

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, 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 undesireable 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 food temperatures from the time the food is received through the time the food is served.

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.

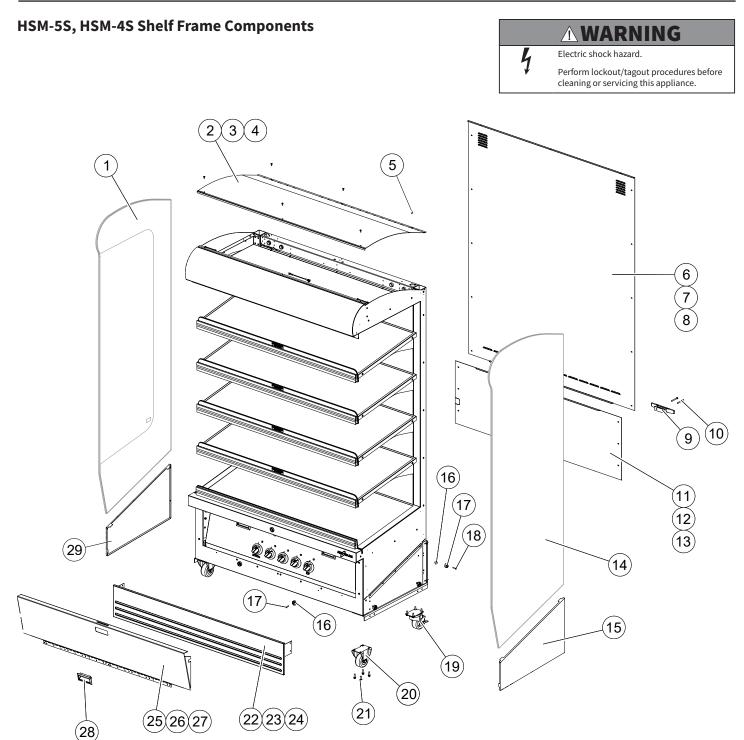
The most accurate method of measuring safe temperatures of both hot and cold foods is by internal product temperature. A thermometer is an effective tool for this purpose, and should be routinely used on all products that require holding at a specific temperature.

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





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HSM-5S, 4S Shelf Frame Components Parts List

WARNING Electric shock hazard.

Electric

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Perform lockout/tagout procedures before cleaning or servicing this appliance.

Item	Part	Description	Qty
1	_	Panel, Left, Tempered Glass, 9.5mm	1
		Factory replacement only	
2	1019990	Top Cover Panel, HSM-24	1
3	1020846	Top Cover Panel, HSM-36	1
4	1020376	Top Cover Panel, HSM-48	1
5	SC-22779	Screw, M4 x 0.8 x 10mm Pan	1
6	1020187	Upper Back Panel, HSM-24	1
7	1020852	Upper Back Panel, HSM-36	1
8	1020572	Upper Back Panel, HSM-48	1
9	E2097HR	Hanger 6-1/2" Rope Cleat 7/16 Black Nylon	1
10	SC-35259	Screw, M5 x 0.8 X 50mm Flat	2
11	5022844R	Lower Back Panel Assembly, HSM-24	1
12	5022739R	Lower Back Panel Assembly, HSM-36	1
13	5022835R	Lower Back Panel Assembly, HSM-48	1
14		Panel, Right, Tempered Glass, 9.5mm Factory replacement only	1
15	1020116	Lower End Cap Panel, Right	1
16	1020152	Magnet, Disk	8
17	MA-38245	Magnet, NEO, Nickel Plated	8
18	SC-22765	Screw,M4 x 0.7 X 20mm Pan	8
19	CS-38565	Caster, Swivel, 3", Lock, Flat	2
20	CS-38902	Caster, Rigid, 3", Flat	2
21	67338	Screw, M6 X 1 X 20mm Hex FLG	16
22	5021895	Kick Panel Assembly, HSM-24	1
23	5022308	Kick Panel Assembly, HSM-36	1
24	5022029	Kick Panel Assembly, HSM-48	1
25	5021878R	Control Panel Cover Assembly, HSM-24	1
26	5022274R	Control Panel Cover Assembly, HSM-36	1
27	5022110R	Control Panel Cover Assembly, HSM-48	1
28	HD-28789	Handle, Pull Recessed, Black	1
29	1020531	Lower End Cap Panel, Left	1

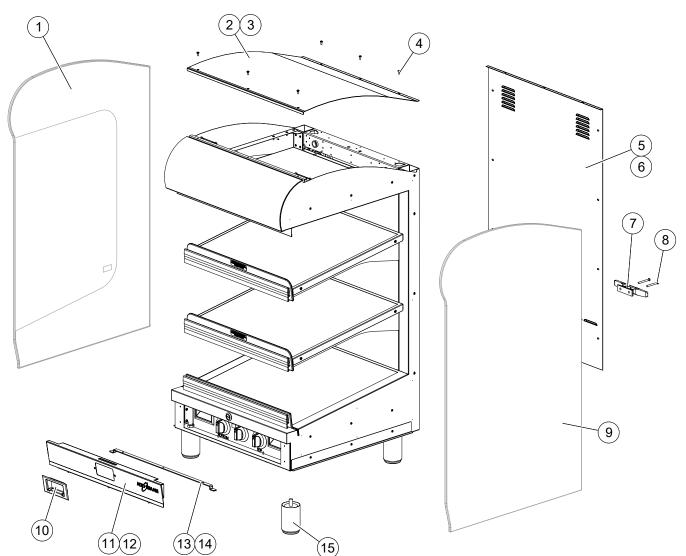
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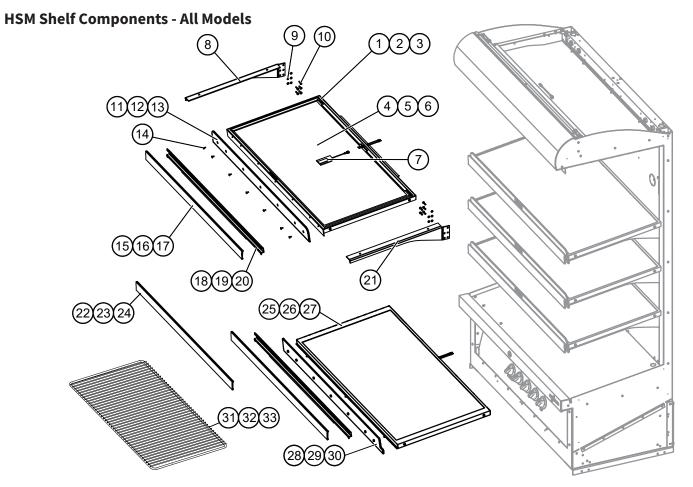
HSM Countertop Frame Components

Electric shock hazard. Perform lockout/tagout procedures before cleaning or servicing this appliance.

ltem	Part	Description	Qty
1	_	Side Glass, Left (Factory replacement only)	
2	1019990	Top Cover Panel, HSM-24	1
3	10208456	Top Cover Panel, HSM-36	1
4	SC22273	Screw, M4 x 0.7 x 10mm Pan	6
5	5023072R	Kit, Back Cover Panel, HSM-24/CT	1
6	5022860R	Kit, Back Cover Panel, HSM-36/CT	1
7	E2097HR	Hanger 6-1/2" Rope Cleat	1
8	SC-35259	Screw, M5 x 0.8 x 50mm Flat	2
9	—	Side Glass, Right (Factory replacement only)	1
10	HD-38498	Handle, Recessed, Stainless Steel	1
11	1021453	Front Control Panel, HSM-24/CT	1
12	1021395	Front Control Panel, HSM-36/CT	1
13	1017418	Attach Strip, HSM-24/CT	1
14	1017453	Attach Strip, HSM-36/CT	1
15	LG-29644	Leg, 4", Adjustable	4



Serial number is required for all inquiries. Part numbers and drawings are subject to change without notice.

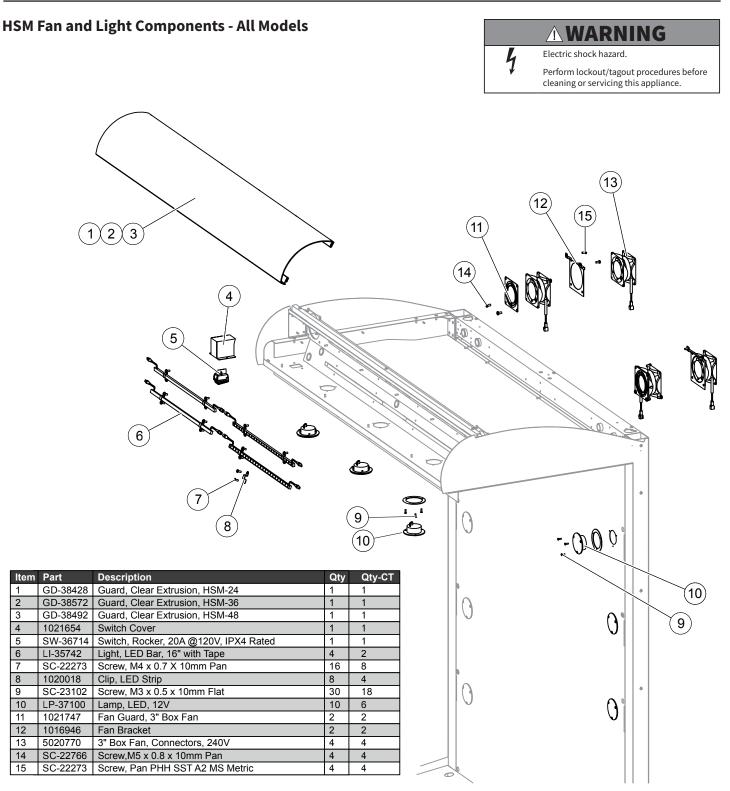


Item	Part	Description	Qty-5S	Qty-4S	Qty-CT
1	5021795R	Shelf Assembly, HSM-24	4	3	2
2	5022261R	Shelf Assembly, HSM-36	4	3	2
3	5022099R	Shelf Assembly, HSM-48	4	3	2
4	5022832R	Element, Foil Heat Pad, HSM-24	4	3	2
5	5022825R	Element, Foil Heat Pad, HSM-36	4	3	2
6	5022840R	Element, Foil Heat Pad, HSM-48	4	3	2
7	5023623	Kit, Sensor Replacement	1	1	1
8	1016906	Shelf Support Arm, Left	4	3	2
9	WS-22301	Washer, M5 Split Lock	40	30	20
10	SC-38830	Screw, M5 x 0.8 x 20mm Pan	40	30	20
11	GD-36676	Shelf Guard, Lexan, HSM-24	4	3	2
12	GD-36677	Shelf Guard, Lexan, HSM-36	4	3	2
13	GD-37136	Shelf Guard, Lexan, HSM-48	4	3	2
14	SC-23141	Screw, M4 x 0.7 x 12mm Flat	35	28	21
15	GD-38897	Shelf Guard, Clear, HSM-24	5	4	3
16	GD-38571	Shelf Guard, Clear, HSM-36	5	4	3
17	GD-38898	Shelf Guard, Clear, HSM-48	5	4	3
18	1022864	Bracket, Guard Standoff, HSM-24	5	4	3
19	1022493	Bracket, Guard Standoff, HSM-36	5	4	3
20	1022865	Bracket, Guard Standoff, HSM-48	5	4	3
21	1016907	Shelf Support Arm, Right	4	3	2
22	1027304	Shelf Insert for Magnetic Sign Panels, HSM-24	5	4	3
23	1027305	Shelf Insert for Magnetic Sign Panels, HSM-36	5	4	3
24	1027306	Shelf Insert for Magnetic Sign Panels, HSM-48	5	4	3
25	5017351R	Base Shelf Assembly, HSM-24	1	1	1
26	5018302R	Base Shelf Assembly, HSM-36	1	1	1
27	5018410R	Base Shelf Assembly, HSM-48	1	1	1
28	5022839R	Shelf Guard, Base, HSM-24	1	1	1
29	5022749R	Shelf Guard, Base, HSM-36	1	1	1
30	5022847R	Shelf Guard, Base, HSM-48	1	1	1
31	SH-46066	Wire Shelf, HSM-24 (optional)	1	1	1
32	SH-46067	Wire Shelf, HSM-36 (optional)	1	1	1
33	SH-46068	Wire Shelf, HSM-48 (optional)	1	1	1

Optional Signage Panels

Description	HSM-24	HSM-36	HSM-48
Signage Panel, POP Display	PE-38808	PE-38809	PE-38810
Signage Panel, Shelf — Grab & Go	PE-38815	PE-38821	PE-38827
Signage Panel, Shelf — Hot & Fresh	PE-38816	PE-38822	PE-38828
Signage Panel, Shelf — Hot & Tasty	PE-38814	PE-38820	PE-38826
Signage Panel, Shelf — Sandwich	PE-38812	PE-38818	PE-38824
Signage Panel, Shelf — BBQ Ribs	PE-38813	PE-38819	PE-38825
Signage Panel, Shelf — Rotisserie	PE-38811	PE-38817	PE-38823
Signage Shelves, All Black	PE-46434	PE-46436	PE-46438
Signage Top Display, All Black	PE-46435	PE-46437	PE-46437
Holder, Magnetic, Black	PE-46057	PE-46058	PE-46059





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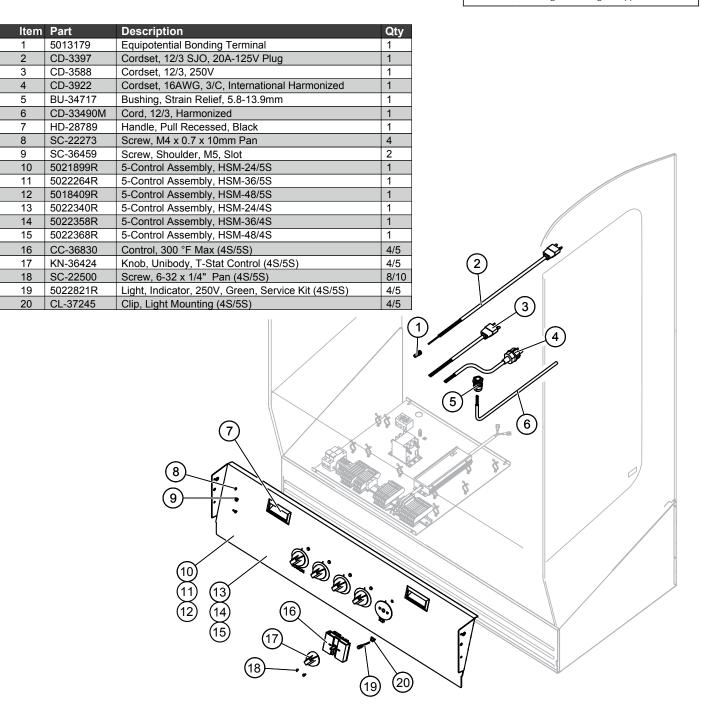
HSM-5S, HSM-4S Shelf Base Components

MWARNING

Electric shock ha

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Perform lockout/tagout procedures before cleaning or servicing this appliance.





Perform lockout/tagout procedures before cleaning or servicing this appliance.

Electric shock hazard.

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HSM Countertop Base Components

Item	Part	Description	Qty
1	LT-38488	Latch	1
2	5018748R	Kit, 3-Control Assembly, HSM-24/CT	1
3	5018791R	Kit, 3-Control Assembly, HSM-36/CT	1
4	SC-22273	Screw, M4 x 0.7 x 10mm Pan	4
5	HD-28789	Handle, Pull Recessed, Black	2
6	KN-36424	Knob, T-Stat Control	3
7	SC-22500	Screw, 6-32 x 1/4" Pan	6
8	5022821R	Light, Indicator, Green, with Clip	3
9	CC-36830	Control, 300°F (149°C) Max	3

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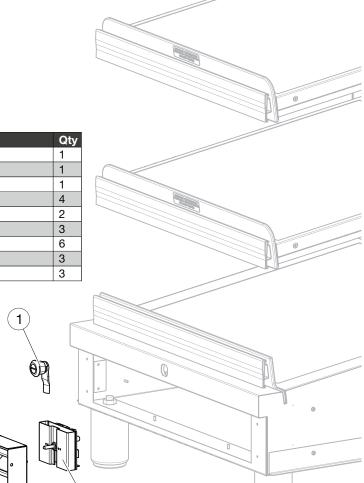
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Serial number is required for all inquiries. Part numbers and drawings are subject to change without notice.

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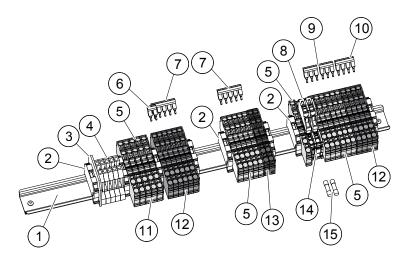
HSM-5S, HSM-4S Shelf Control Components

A WARNING	Item	Part	Description	Qty
	1	5013179	Equipotential Ground Stud	1
1 1	2	SC-2365	Screw, 6-32 x 1-1/4" Pan	2
Perform lockout/tagout procedures before cleaning or servicing this appliance.	3	NU-36234	Nut, M5, Keps	3
	4	WS-2467	Washer, Locking	1
	5	SC-38128	Screw, Pan PH, Metric M5	1
	6	BK-3019	T-Block	1
	7	CN-3052	Contactor 208/240V 3-Pole 25A Contactor 120V 2-Pole 25A	1
	9	CN-3487 BA-38198	Power Supply with Connectors	1
	10	SC-22273	Screw, M4 x 0.7 x 10mm Pan	3



HSM-5S, HSM-4S Shelf Control Terminal Blocks

HSM-24/4S, HSM-24/5S



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HSM-36/4S

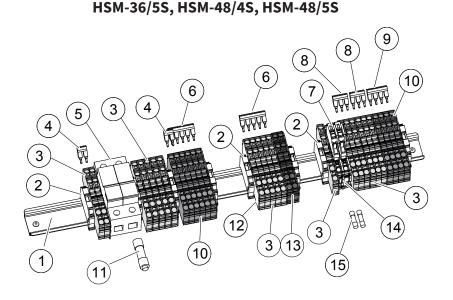
ID	Part No.	Description	Qty
1	1013459	DIN Rail	1
2	TM-39606	End Stop	8
3	TM-3783	Separator	1
4	TM-3778	Terminal, 4mm	5
5	TM-39574	Terminal, 6mm, Spring Type, Orange	17
6	TM-39585	Jumper Bar, Comb, 2-Pole	1
7	TM-39582	Jumper Bar, Comb, 5-Pole	2
8	TM-39577	Fuse Holder	2
9	TM-39584	Jumper Bar, Comb, 3-Pole	2
10	TM-39583	Jumper Bar, Comb, 4-Pole	1
11	TM-39576	Separator	13
12	TM-39575	Terminal, 6mm, Spring Type, Blue	10
13	TM-39579	Terminal, Ground, 6mm, Spring Type	2
14	TM-39578	Separator	2
15	FU-33452	Fuse, 6.3A	2

ID	Part No.	Description	Qty
1	1013459	DIN Rail	1
2	TM-39606	End Stop	7
3	TM-39574	Terminal, 6mm, Spring Type, Orange	17
4	TM-39585	Jumper Bar, Comb, 2-Pole	1
5	TM-39582	Jumper Bar, Comb, 5-Pole	2
6	TM-39577	Fuse Holder	2
7	TM-39584	Jumper Bar, Comb, 3-Pole	2
8	TM-39583	Jumper Bar, Comb, 4-Pole	1
9	TM-39576	Separator	13
10	TM-39575	Terminal, 6mm, Spring Type, Blue	10
11	TM-39579	Terminal, Ground, 6mm, Spring Type	2
12	TM-39578	Separator	2
13	FU-33452	Fuse, 6.3A	2



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HSM-5S, HSM-4S Shelf Control Terminal Blocks



Description Part No. Qty ID 1013459 **DIN Rail** 1 1 2 TM-39606 End Stop 8 3 TM-39574 | Terminal, 6mm, Spring Type, Orange 19 4 TM-39585 Jumper Bar, Comb, 2-Pole 2 FU-34771 Fuse Holder 1 5 TM-39582 Jumper Bar, Comb, 5-Pole 6 2 7 TM-39577 | Fuse Holder 2 TM-39584 Jumper Bar, Comb, 3-Pole 2 8 TM-39583 Jumper Bar, Comb, 4-Pole 9 1 TM-39575 Terminal, 6mm, Spring Type, Blue 10 10 FU-34938 Fuse, 3A 11 1 12 TM-39576 Separator 14 TM-39579 Terminal, Ground, 6mm, Spring Type 13 2 14 TM-39578 Separator 2 15 FU-33452 Fuse, 6.3A 2



Serial number is required for all inquiries.

Part numbers and drawings are subject to change without notice.



HSM Countertop Control Components

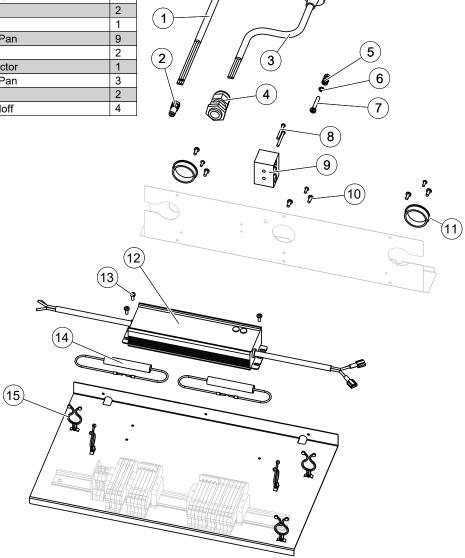
WARNING

Electric shock hazard.

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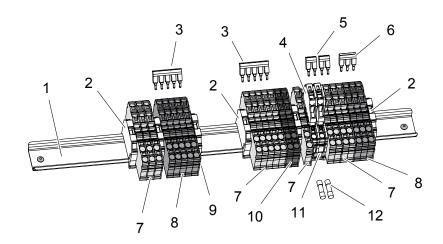
Perform lockout/tagout procedures before cleaning or servicing this appliance.

Item	Part	Description	Qty
1	5011565R	Cordset, NEMA 6-20P, with Ferrule	1
	5017194	Cordset, NEMA 6-15P, with Ferrule (not shown)	1
2	5013179	Equipotential Ground Stud	1
3	5013670R	Cordset, CE 7/7, with Ferrule	1
4	BU-34717	Bushing, Strain Relief	1
5	NU-36234	Nut, M5, Keps	3
6	WS-2467	Washer, Lock	1
7	SC-38128	Screw, Pan, Ph, Metric, M5	1
8	SC-2365	Screw, 6-32 x 1-1/4" Pan	2
9	BK-3019	T-Block	1
10	SC-22273	Screw, M4 x 0.7 x 10mm Pan	9
11	BU-3013	Bushing, Snap, 1-1/2"	2
12	5020740	Power Supply with Connector	1
13	SC-22273	Screw, M4 x 0.7 x 10mm Pan	3
14	5020737	Fuse Link Assembly	2
15	TI-35719	Tie, Twist Lock 0.5" Standoff	4



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HSM Countertop Control Terminal Blocks



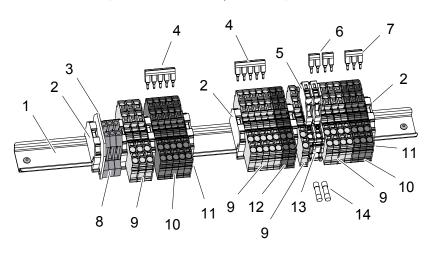
HSM-36/3S-CT, HSM-24/3S-CT 120V

ID	Part No.	Description	Qty
1	1013636	DIN Rail	1
2	TM-39606	End Stop, Clip	6
3	TM-39582	Jumper Bar, Comb, 5-Pole	2
4	TM-39578	Separator	2
5	TM-39585	Jumper Bar, Comb, 2-Pole	2
6	TM-39584	Jumper Bar, Comb, 3-Pole	1
7	TM-39574	Terminal, 6mm, Spring Type, Orange	13
8	TM-39575	Terminal, 6mm, Spring Type, Blue	8
9	TM-39576	Separator	10
10	TM-39579	Terminal, Ground, 6mm, Spring Type	2
11	TM-39577	Fuse Holder	2
12	FU-33452	Fuse, 6.3A	2





HSM Countertop Control Terminal Blocks

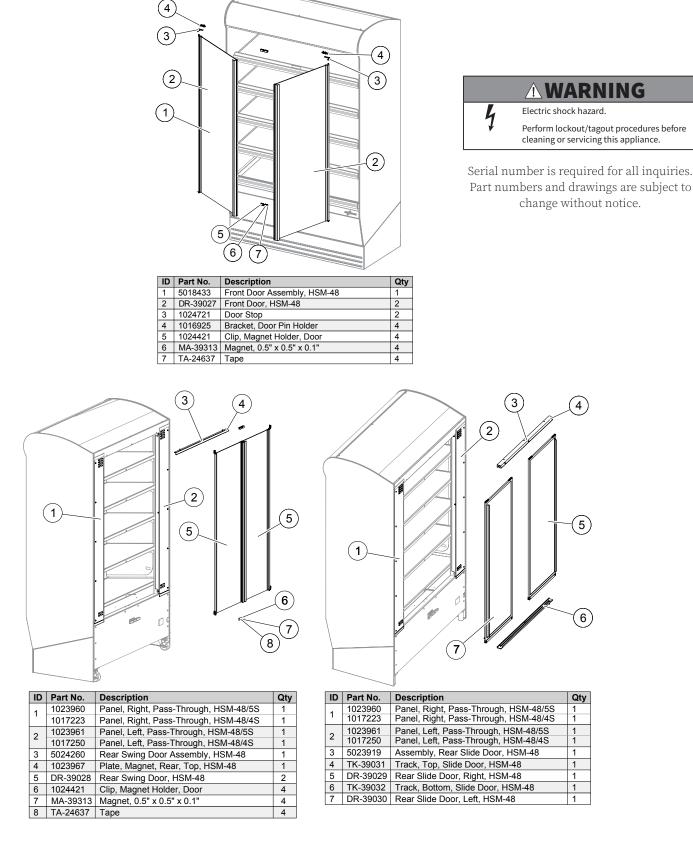


HSM-24/3S-CT 208-240V, HSM-24/3S-CT 230V

ID	Part No.	Description	Qty
1	1013636	DIN Rail	1
2	TM-39606	End Stop, Clip	7
3	TM-3783	Separator	1
4	TM-39582	Jumper Bar, Comb, 5-Pole	2
5	TM-39578	Separator	2
6	TM-39585	Jumper Bar, Comb, 2-Pole	2
7	TM-39584	Jumper Bar, Comb, 3-Pole	1
8	TM-3778	Terminal, 4mm	3
9	TM-39574	Terminal, 6mm, Spring Type, Orange	13
10	TM-39575	Terminal, 6mm, Spring Type, Blue	8
11	TM-39576	Separator	10
12	TM-39579	Terminal, Ground, 6mm, Spring Type	2
13	TM-39577	Fuse Holder	2
14	FU-33452	Fuse, 6.3A	2

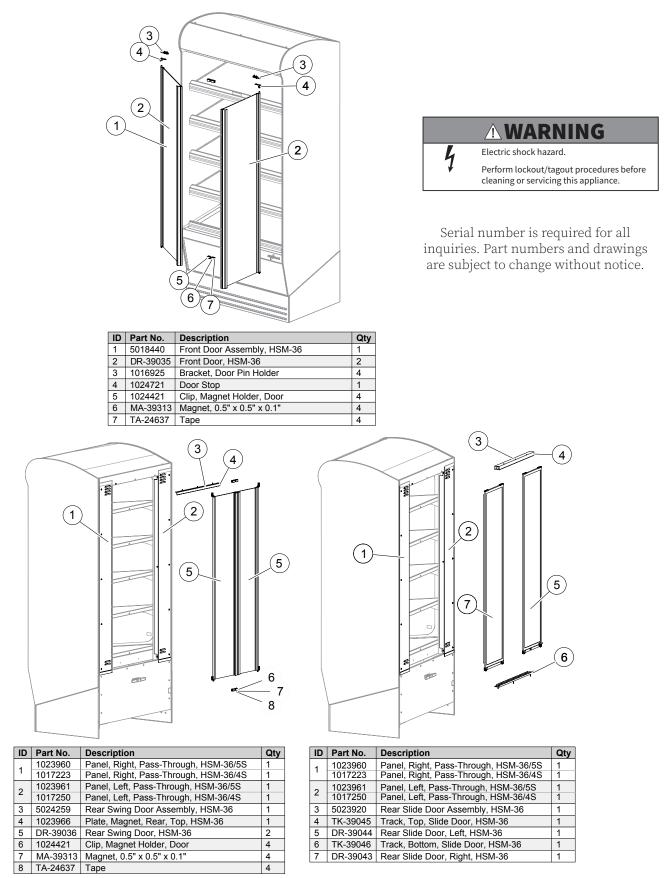


HSM-48/5S, HSM-48/4S Pass-Through: Front, Rear Swing and Rear Slide Doors



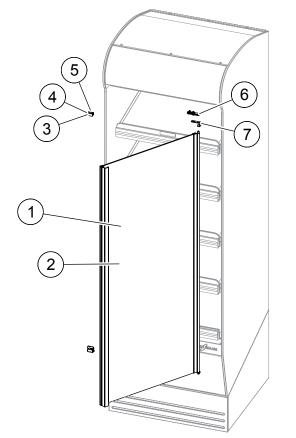


HSM-36/5S, HSM-36/4S Pass-Through: Front, Rear Swing and Rear Slide Doors

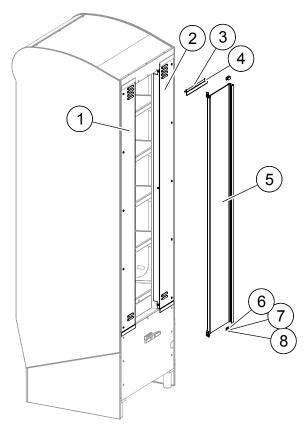


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HSM-24/5S, HSM-24/4S Pass-Through: Front and Rear Swing Doors



ID	Part No.	Description	Qty
1	5018425	Front Door Assembly, HSM-24	1
2	DR-39037	Front Door, HSM-24	1
3	1024421	Clip, Magnet Holder, Door	2
4	MA-39313	Magnet, 0.5" x 0.5" x 0.1"	2
5	TA-2463	Таре	2
6	1016925	Bracket, Door Pin Holder	2
7	1024721	Door Stop	1



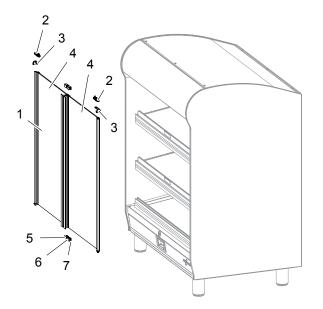
ID	Part No.	Description	Qty
4	1023960	Panel, Right, Pass-Through, HSM-24/5S	1
'	1017223	Panel, Right, Pass-Through, HSM-24/4S	1
2	1023961	Panel, Left, Pass-Through, HSM-24/5S	1
2	1017250	Panel, Left, Pass-Through, HSM-24/4S	1
3	5024258	Rear Swing Door Assembly, HSM-24	1
4	1023965	Plate, Magnet, Rear, Top, HSM-24	1
5	69237	Rear Swing Door, HSM-24	1
6	1024421	Clip, Magnet Holder, Door	2
7	MA-39313	Magnet, 0.5" x 0.5" x 0.1"	2
8	TA-24637	Таре	2



Serial number is required for all inquiries. Part numbers and drawings are subject to change without notice.



HSM-36/3S-CT Pass-Through: Front, Rear Swing and Rear Slide Doors



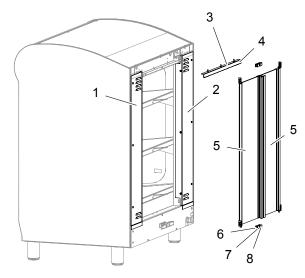
Electric shock hazard.

4

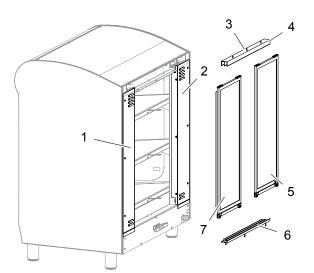
Perform lockout/tagout procedures before cleaning or servicing this appliance.

Serial number is required for all inquiries. Part numbers and drawings are subject to change without notice.

ID	Part No.	Description	Qty
1	5018799	Front Door Assembly, HSM-36/CT	1
2	1016925	Bracket, Door Pin Holder	4
3	1024721	Door Stop	2
4	DR-39039	Front Door, HSM-36/CT	2
5	1024421	Clip, Magnet Holder, Door	4
6	MA-39313	Magnet, 0.5" x 0.5" x 0.1"	4
7	TA-24637	Таре	4



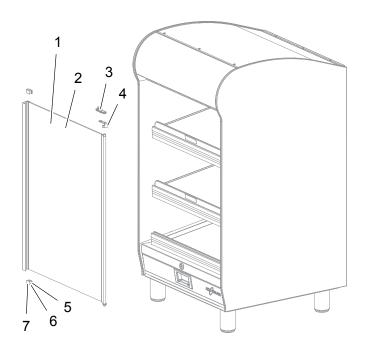
ID	Part No.	Description	Qty
1	1023962	Panel, Right, Pass-Through, HSM-36/CT	1
2	1023963	Panel, Left, Pass-Through, HSM-36/CT	1
3	5024265	Rear Swing Door Assembly, HSM-36/CT	1
4	1023966	Plate, Magnet, Rear, Top, HSM-36	1
5	DR-39040	Rear Swing Door, HSM-36/CT	2
6	1024421	Clip, Magnet Holder, Door	4
7	MA-39313	Magnet, 0.5" x 0.5" x 0.1"	4
8	TA-24637	Таре	4



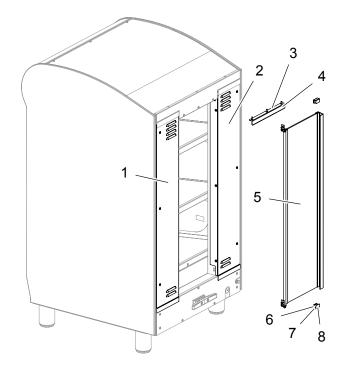
ID	Part No.	Description	Qty
1	1023962	Panel, Right, Pass-Through, HSM-36/CT	1
2	1023963	Panel, Left, Pass-Through, HSM-36/CT	1
3	5023921	Rear Slide Door Assembly, HSM-36/CT	1
4	TK-39045	Track, Top, Slide Door, HSM-36	1
5	DR-39048	Rear Slide Door, Left, HSM-36/CT	1
6	TK-39046	Track, Bottom, Slide Door, HSM-36/CT	1
7	DR-39047	Rear Slide Door, Right, HSM-36/CT	1

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HSM-24/3S-CT Pass-Through: Front and Rear Swing Doors



ID	Part No.	Description	Qty
1	5018753	Front Door Assembly, HSM-24/CT	1
2	DR-39041	Front Door, HSM-24/CT	1
3	1016925	Bracket, Door Pin Holder	2
4	1024721	Door Stop	1
5	1024421	Clip, Magnet Holder, Door	2
6	MA-39313	Magnet, 0.5" x 0.5" x 0.1"	2
7	TA-24637	Таре	2



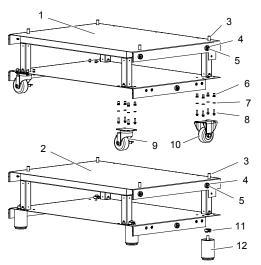
ID	Part No.	Description	Qty
1	1023962	Panel, Right, Pass-Through, HSM-24/CT	1
2	1023963	Panel, Left, Pass-Through, HSM-24/CT	1
3	5024264	Rear Swing Door Assembly, HSM-24/CT	1
4	1023965	Plate, Magnet, Rear, Top, HSM-24	1
5	DR-39042	Rear Swing Door, HSM-24/CT	1
6	1024421	Clip, Magnet Holder, Door	2
7	MA-39313	Magnet, 0.5" x 0.5" x 0.1"	2
8	TA-24637	Таре	2



Serial number is required for all inquiries. Part numbers and drawings are subject to change without notice.



HSM-36/3S-CT, HSM-24/3S-CT Display Base Frames and Skirt



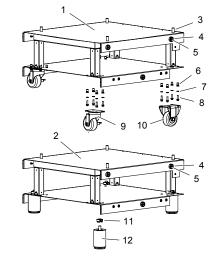
ID	Part No.	Description	Qty
1	5026176	Display Base, HSM-36/3S-CT, Casters	1
2	5026182	Display Base, HSM-36/3S-CT, Legs	1
3	SC-27441	Screw, M12 x 1.75 x 25mm, Hex	4
4	MA-38245	Magnet, Neo	8
5	SC-22765	Screw, M4 x 0.7 x 20mm, Pan	8
6	NU-37269	Nut, M6, Hex, Insert	16
7	WS-22302	Washer, M6, Split Lock	16
8	SC-28256	Screw, M6 x 1 x 20mm, Hex, FLG	16
9	CS-38565	Caster, 3", Swivel with Brake	2
10	CS-38902	Caster, 3", Rigid	2
11	NU-37699	Nut, M12 x 1.75, Cage	4
12	LG-29644	Leg, 4", Adjustable	4

WARNING

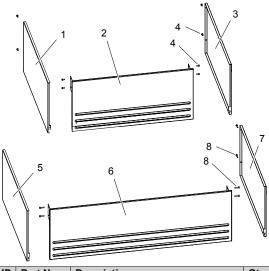
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Electric shock hazard. Perform lockout/tagout procedures before cleaning or servicing this appliance.

Serial number is required for all inquiries. Part numbers and drawings are subject to change without notice.

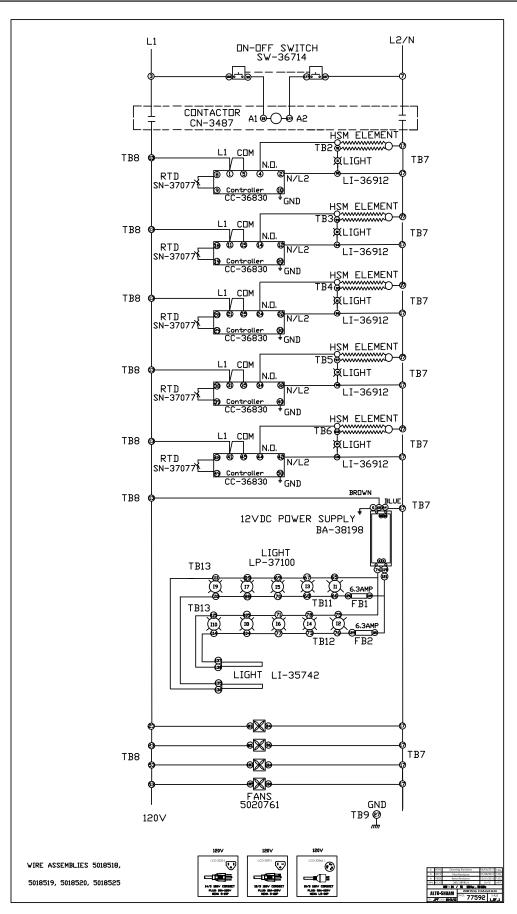


ID	Part No.	Description	Qty
1	5026172	Display Base, HSM-24/3S-CT, Casters	1
2	5026180	Display Base, HSM-24/3S-CT, Legs	1
3	SC-27441	Screw, M12 x 1.75 x 25mm, Hex	4
4	MA-38245	Magnet, Neo	8
5	SC-22765	Screw, M4 x 0.7 x 20mm, Pan	8
6	NU-37269	Nut, M6, Hex, Insert	16
7	WS-22302	Washer, M6, Split Lock	16
8	SC-28256	Screw, M6 x 1 x 20mm Hex, FLG	16
9	CS-38565	Caster, 3", Swivel with Brake	2
10	CS-38902	Caster, 3", Rigid	2
11	NU-37699	Nut, M12 x 1.75, Cage	4
12	LG-29644	Leg, 4", Adjustable	4

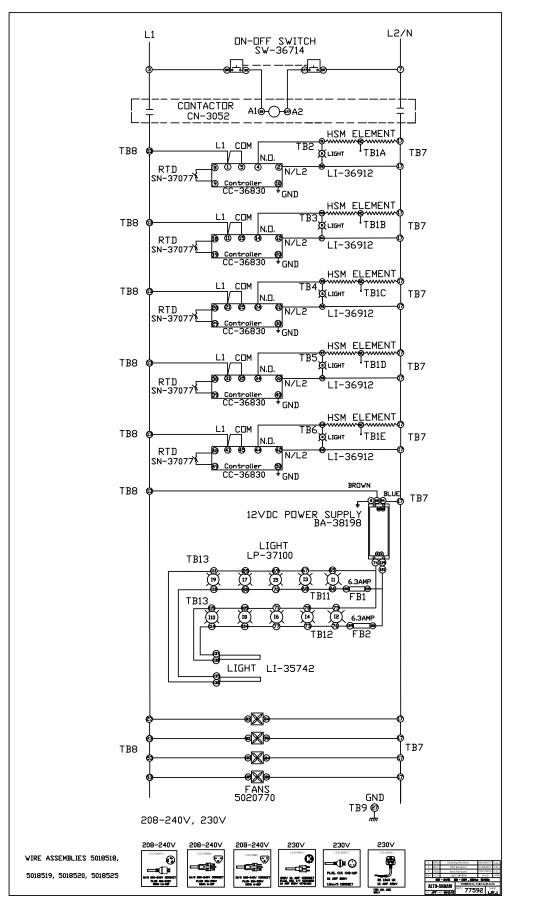


ID	Part No.	Description	Qty
1	1026510	Panel, HSM-24/3S-CT, Left	1
2	1026512	Panel, HSM-24/3S-CT, Front	1
3	1026509	Panel, HSM-24/3S-CT, Right	1
4	SC-22273	Screw, M4 x 0.7 x 10mm, Pan	8
5	1026510	Panel, HSM-36/3S-CT, Left	1
6	1026508	Panel, HSM-36/3S-CT, Front	1
7	1026509	Panel, HSM-36/3S-CT, Right	1
8	SC-22765	Screw, M4 x 0.7 x 20mm, Pan	8



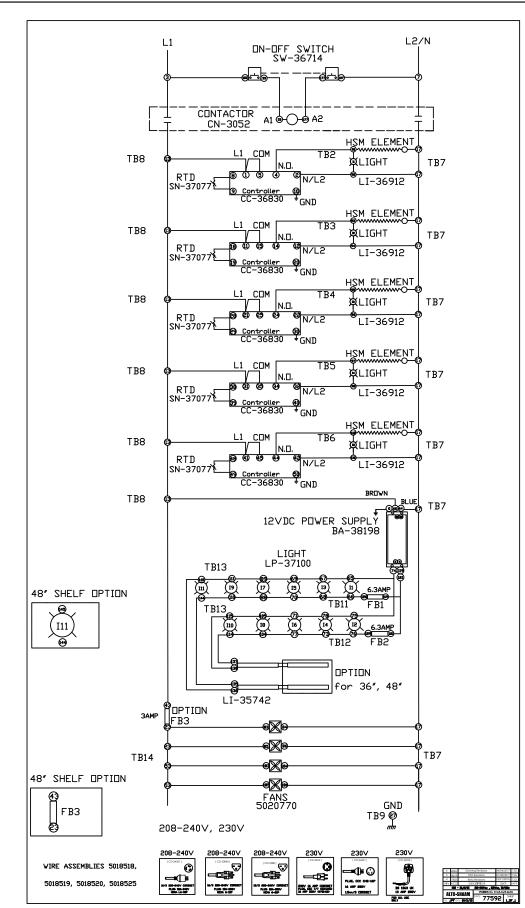




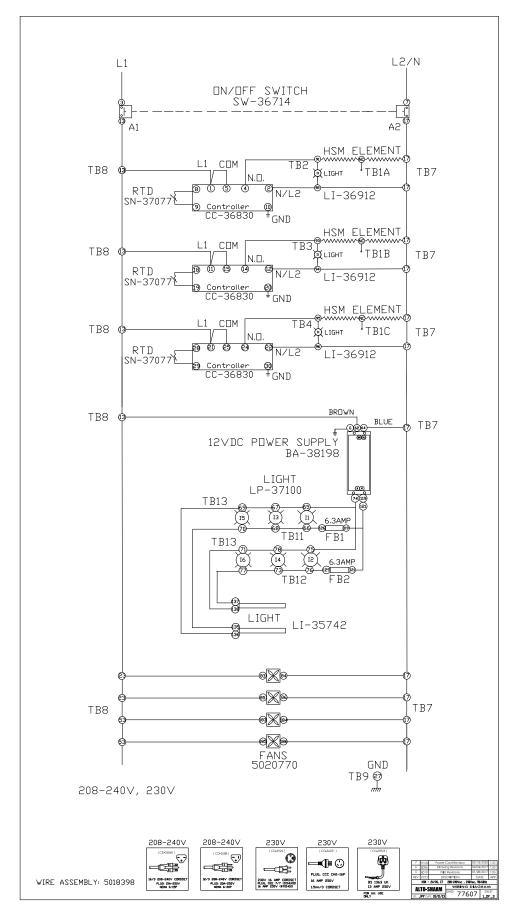


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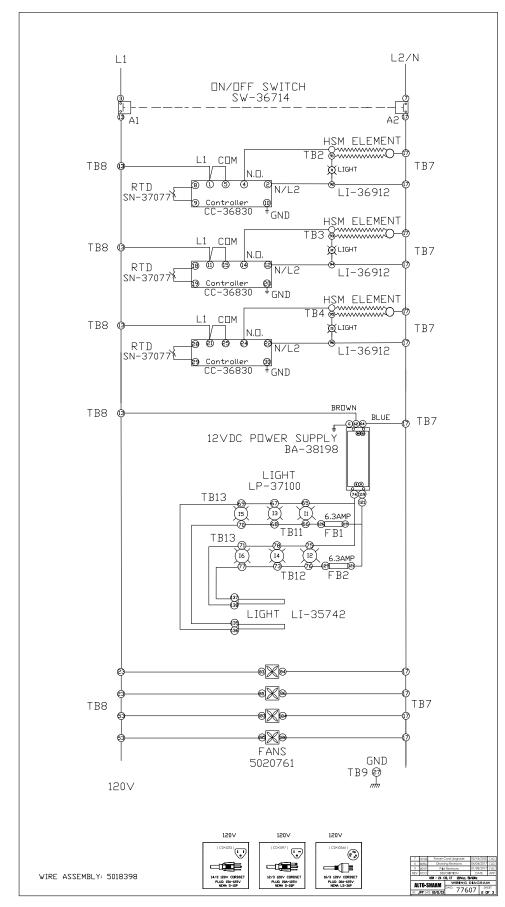






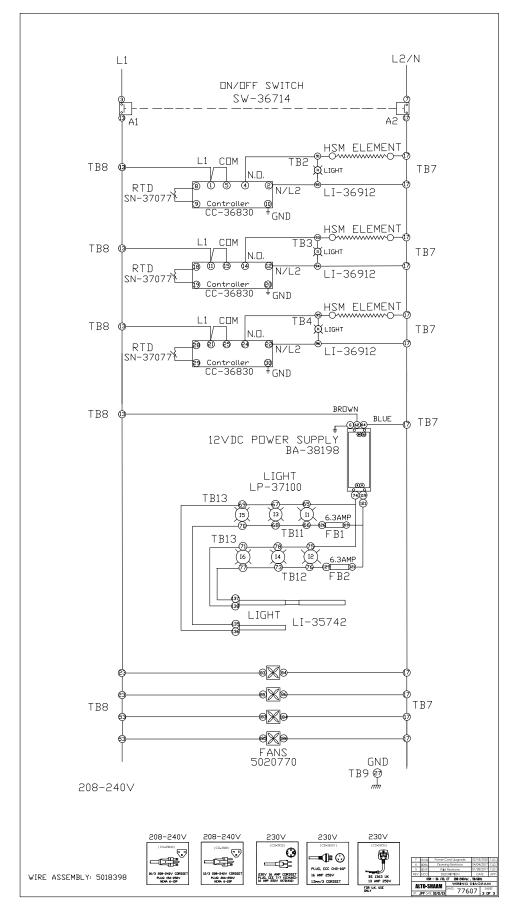


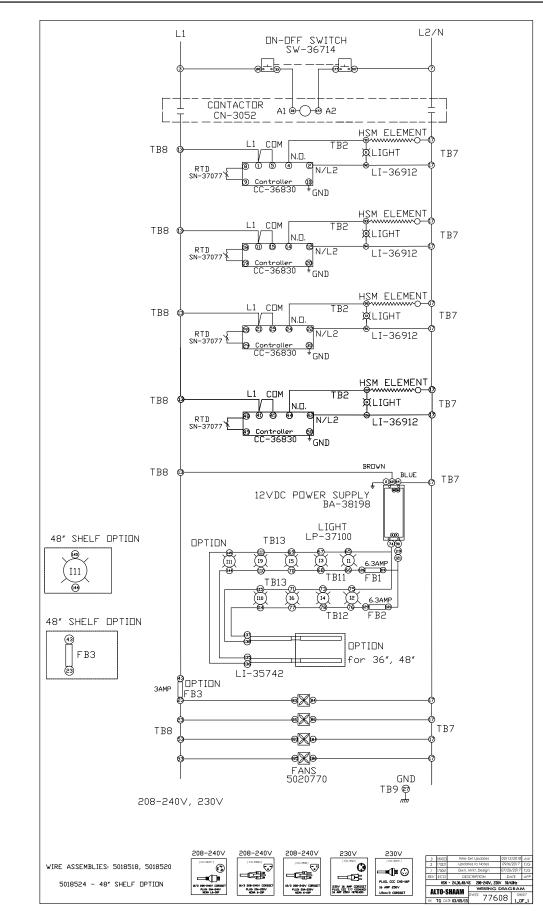




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ALTO-SHAAM





Introduction	Alto-Shaam, Inc. warrants to the original purchaser only, that any original part found to be defective in material or workmanship will be replaced with a new or rebuilt part at Alto- Shaam's option, subject to provisions hereinafter stated.			
Warranty	The original parts warranty period is as follows:			
Period	• 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. 			
	 For the refrigeration compressor, if installed, the warranty period is five (5) years from the date of original installation of the appliance. 			
	 For heating elements on Halo Heat® Cook and Hold ovens, the warranty period is for as long as the original owner owns the oven. This warranty period applies to units sold after 2/1/2009 and excludes holding-only ovens. 			
	 To be valid, a warranty claim must be asserted during the applicable warranty period. This warranty is not transferable. 			
Exclusions	This warranty does not apply to:			
	Calibration.			
	 Replacement of light bulbs, rubber gaskets, grease filters, air filters, racks, jet plates, and/ or the replacement of glass due to damage of any kind. 			
	 Equipment damage caused by accident, shipping, improper installation or alteration. 			
	 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. 			
	 Equipment damage caused by use of any cleaning agents other than those recommended by Alto- Shaam, including but not limited to damage due to chlorine or other harmful chemicals. 			
	 Any losses or damage resulting from malfunction, including loss of food product, revenue, or consequential or incidental damages of any kind. 			
	 Equipment modified in any manner from original model, substitution of parts other than factory authorized parts, unauthorized removal of any parts including legs, or unauthorized addition of any parts. 			
	 Equipment damage incurred as a direct result of poor water quality*, inadequate maintenance of steam generators and/or surfaces affected by water. Water quality and required maintenance of steam generating equipment is the responsibility of the owner/ operator. 			
	 Equipment damage incurred as a result of not following the required maintenance schedule published in the manuals for the equipment. 			
Conclusion	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. 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.			
	*Refer to the product spec sheet for water quality standards.			



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