



USER MANUAL



ELECTRIC CONVECTION OVENS

MODELS: 541EC1D, 541EC1C, 541EC2DK, 541EC2CK



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Congratulations on your purchase of Main Street Equipment commercial cooking equipment! At Main Street Equipment, we take pride in the design, innovation, and quality of our products. When used as intended and with proper care and maintenance, you will experience years of reliable operation from your Main Street Equipment equipment. To ensure optimal performance, we have outlined the following instructions and guidelines in this manual for your review. Main Street Equipment declines any responsibility in the event users do not follow the instructions or guidelines stated here.

PRODUCT OVERVIEW

The 541EC1D/C features a sturdy steel construction with 4 adjustable legs. It is equipped with a built-in two speed convection fan for temperature uniformity throughout the cavity. This oven features high efficiency heating elements and an electronic thermostat to ensure accurate temperate for precise cooking.



Conforms to UL STD. 197
Certified to CSA STD. C22.2 NO.109
Conforms to NSF/ANSI std. 4



USER MANUAL

SAFETY INFORMATION



WARNING

Any incorrect installation, maintenance, or self-modification can lead to property loss, bodily harm, or death. Please contact Main Street Equipment for any adjustment or maintenance. A certified and insured foodservice equipment technician must handle all maintenance and repair.



WARNING

For the safety of everyone involved, please keep the equipment away from any flammable or explosive objects and substances. Do not store or use any such items in the vicinity of this unit.



WARNING

This equipment should not be operated by persons with insufficient experience or knowledge of the equipment (including children), nor should it be used by those with physiological, perceptual, or mental disabilities without proper supervision.



WARNING

Keep children away from the equipment for their safety.



WARNING

Always keep this manual accessible. When transferring possession of the equipment to a third party, the manual must also be handed over. All users must operate the unit in compliance with this manual.



WARNING

Any nearby walls, surfaces, kitchen supplies, etc. should be non-combustible and heat-resistant. Please pay special attention to fire prevention regulations.


IDENTIFYING YOUR OVEN

For future reference, record the cabinet model and serial number found on the serial plate located on the rear of the cabinet.

MODEL: _____ SERIAL#: _____

ITEM#: _____ QUANTITY: _____

Electric Convection Oven



Item: 541EC1C Voltage: 208V
Phase/Amps: 3 Phase; 32A / 1 Phase; 53A
Hertz: 60Hz
Wattage: 11 kW
Temperature Range: 150°F-500°F
Serial #:

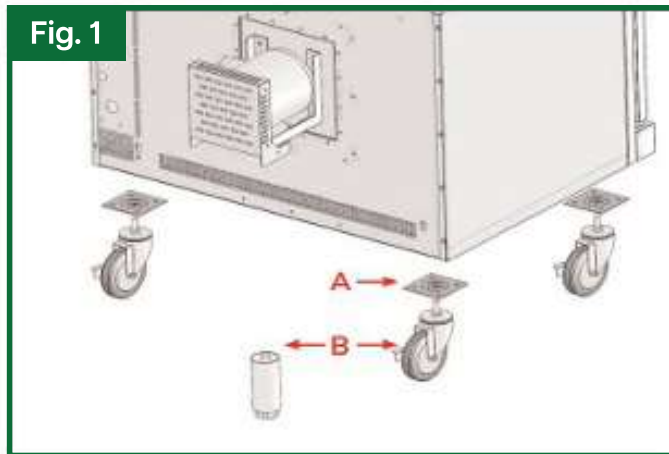
Intertek Intertek 4003027
Conforms to UL STD 197
Conforms to CSA STD 120.2 NO.319
Conforms to NSF/ANSI 464.4
MADE IN CHINA

Intended for other than household use.

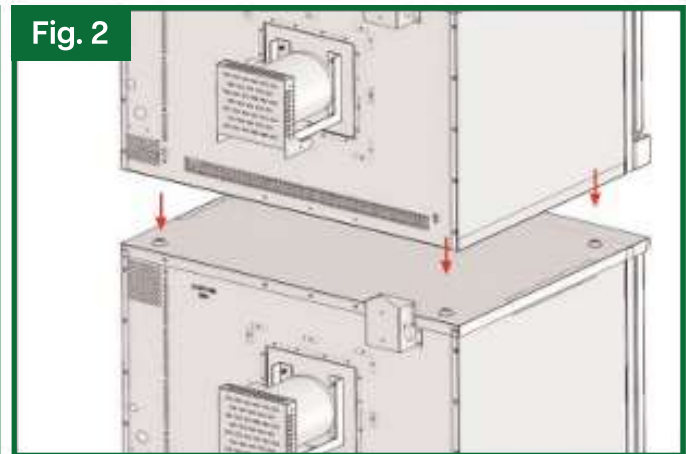
OVEN STACKING INSTRUCTIONS

NOTE: Requires two like ovens and stacking kit (#54117046014).

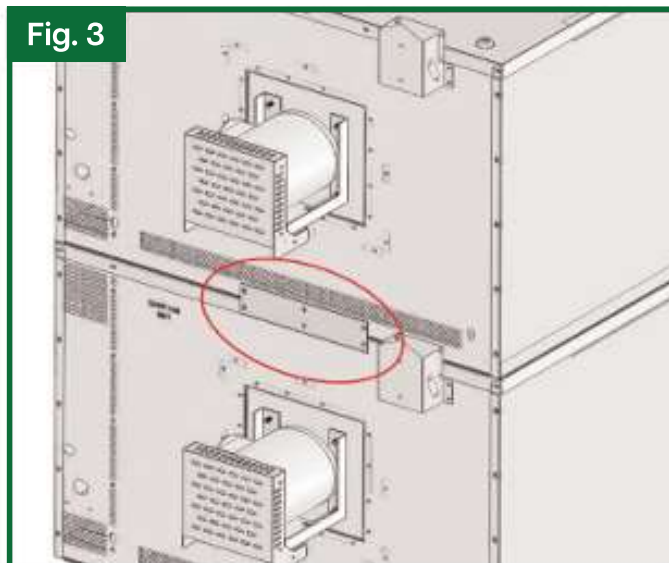
NOTE: The stacking should be performed by an authorized service agent or installer. It takes two people to lift the ovens.



1. Install the caster plate (Fig. 1 A).
2. Install the caster or legs (Fig. 1 B).



3. Align the top notches of the lower oven with the notches on the bottom of the upper oven (Fig. 2).



4. Attach the top and bottom unit with connecting plates and screws (Fig. 3).



5. Stacking is complete (Fig. 4).



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SPECIFICATIONS

	541EC1C		541EC1D	
	1 Phase	3 Phase	1 Phase	3 Phase
Total Power	11 kW		11.9 kW	
Voltage	208		240	
Amps	53	32	50	30
Overall Dimensions (Single Oven)	38 $\frac{1}{8}$ " x 41 $\frac{1}{2}$ " x 54 $\frac{1}{8}$ "			
Overall Dimensions (Stacked Oven)	38 $\frac{1}{8}$ " x 41 $\frac{1}{2}$ " x 63 $\frac{1}{2}$ "			
Oven Chamber Dimensions	29" x 22 $\frac{1}{4}$ " x 20"			
Temperature Changes	150-500°F			
Fan Speed (High)	0.5 HP			
Fan Speed (Low)	0.14 HP			
Weight (Single Oven)	403.45 lb.			
Clearance	0" sides, 2" rear, 6" from heat producing equipment			

NOTE: 541EC2(D/C)K ovens consist of two like 541EC1D/C ovens - please see the spec table above for the individual oven/cavity specifications.

NOTE: Each oven requires its own electrical connection.

NOTE: While the phases on these ovens are convertible, the voltages cannot be converted. If you have the wrong voltage, you will need to purchase a unit with the correct voltage.

NOTE: These units need to be installed on a dedicated and appropriately sized circuit.



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START-UP

1. Remove packaging before beginning installation.
NOTE: Some parts are protected with an adhesive film. Remove any glue residue with approved substances, such as Noble Chemical Strike All Purpose Cleaner (#147STRIKE1G); never use abrasive substances. (See Cleaning & Maintenance on pg. 12 for our other recommended cleaning agents and further cleaning instructions.)
2. Mount the feet, adjusting them to make the unit level.
NOTE: If stacking ovens, see above for stacking instructions. If installing casters on a single deck model, see instructions below.
3. The electrical connections must be close to the equipment and easy to reach.
4. Place the unit under an exhaust hood to comply with your local regulations.
5. Install the unit at least 2" from the wall and at least 6" from other heat-producing equipment. Any wall, surface, cabinet, table, etc. in close proximity to the equipment should be made of non-combustible materials with proper thermal insulation.
6. Law provisions, technical regulations, and directives: The manufacturer requires the installation to be performed according to national and local codes and must be performed by a licensed installer.
7. Checking the functions: The serial plate, like the example on page 3, is located on the right side panel. Please ensure that the voltage stated on the serial plate is compatible before performing the electrical connection.

CASTER INSTALLATION INSTRUCTIONS

Follow the instructions below to install casters on single deck ovens.

1. Remove the foot from the leg.
2. If the caster is connected to a mounting plate, use a hex wrench to remove the caster from the mounting plate. If already disconnected, skip this step.
3. Screw the caster into the leg.
4. Repeat steps 1 - 3 for the remaining legs.

NOTES FOR THE INSTALLER

- Explain and demonstrate to the user how the equipment works according to the instructions, and ensure that the user manual is accessible.
- Remind the user that any structural alterations or modifications made to the room that houses the equipment will warrant a recheck of the equipment functions.
- Do not install the equipment close to other units that can reach high temperature, as the electrical components could be damaged. A 6" minimum clearance is required from such equipment.

ELECTRICAL CONNECTION

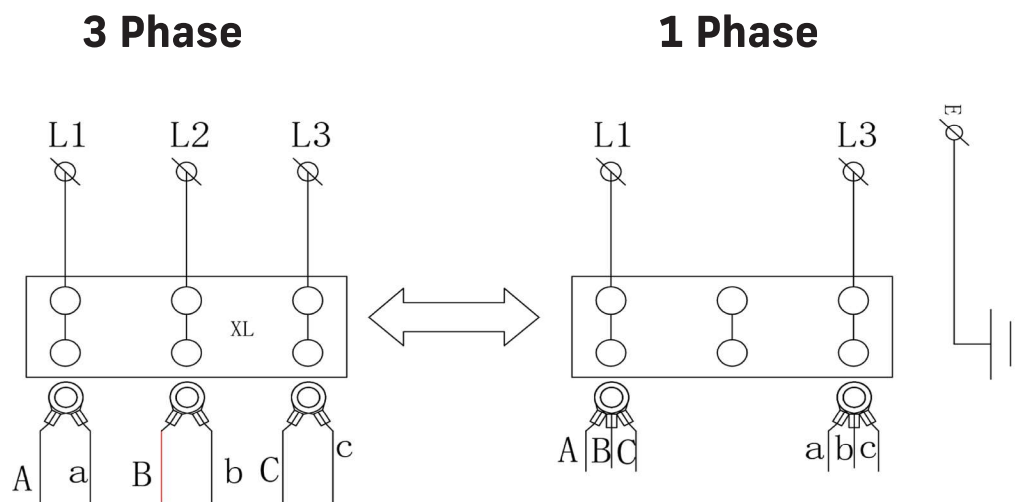
The oven must be electrically grounded in accordance with all local and national codes (in the USA, the National Electrical code ANSI/NFPA no. 70 is applicable).

NOTE: Please note that these units need to be installed on a dedicated and appropriately sized circuit.

PHASE CONVERSION INSTRUCTIONS

Please follow the below steps to convert the phase of your oven to match your application.

NOTE: Only phase can be converted. The voltage of these ovens cannot be converted. Please ensure that your oven is the proper voltage to be used with your electrical connection.



Convert 3 phase to 1 phase

1. Remove wires 'a', 'B', and 'C' from their terminal block locations.
2. Secure wires 'A', 'B', and 'C' to the same terminal block location.
3. Secure wires 'a', 'b', and 'c' from their terminal block location.

Convert 1 phase to 3 phase

1. Remove wires 'a', 'B', 'b', and 'C' from their terminal block locations.
2. Secure wires 'A', and 'a' to the same terminal.
3. Secure wires 'B', and 'b' to the same terminal block location.
4. Secure wires 'C', and 'c' to the same terminal block location.

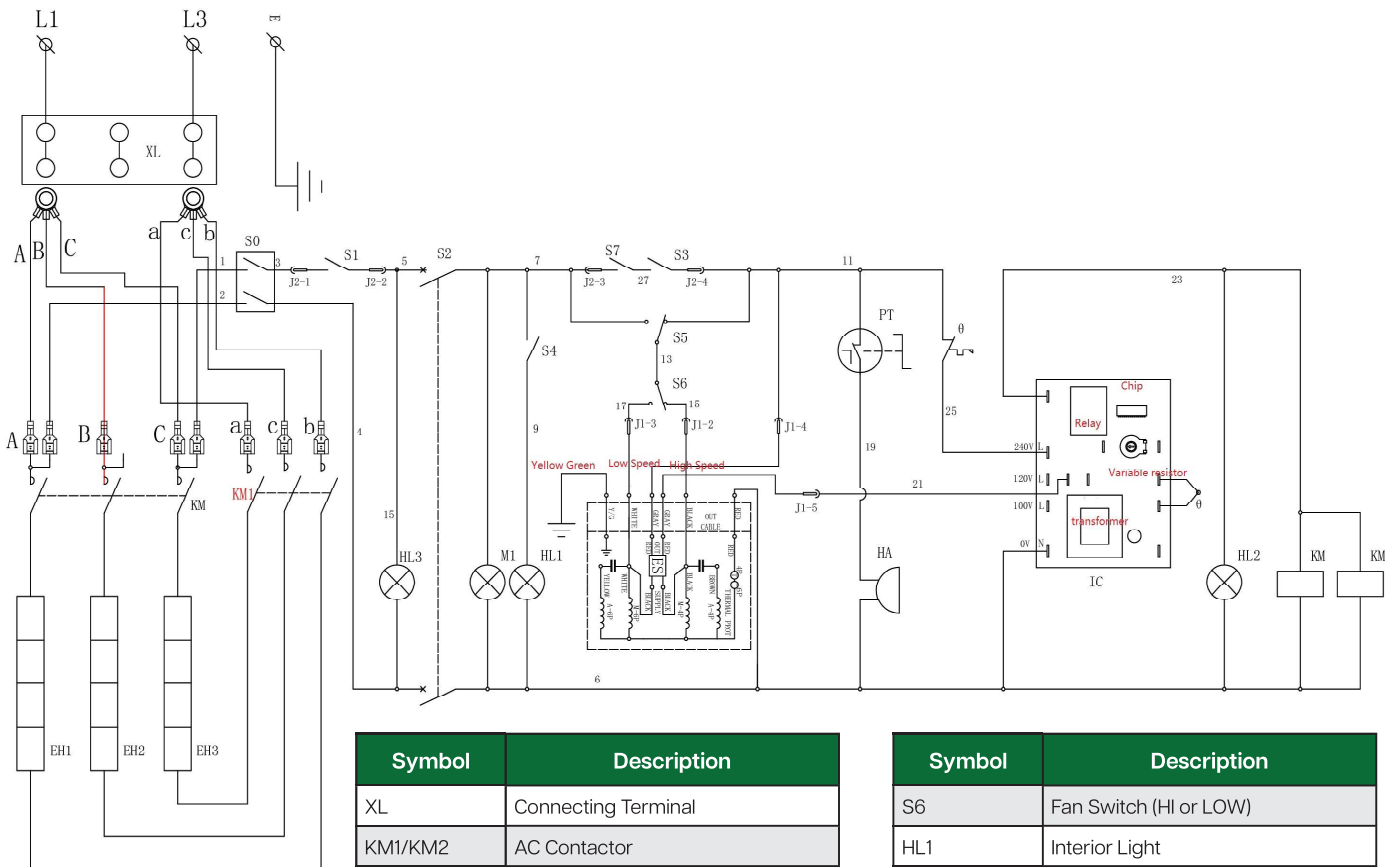
EXHAUST SYSTEM

The room where the equipment is installed must be fitted with air intakes to guarantee the correct operation of the unit and air exchange.

- During installation, make sure the air suction and evacuation ways are free from any obstacles.
- This unit must be installed per all applicable hood regulations.
- This unit is not designed to be directly connected to an evacuation duct for the discharge of combustible products.

ELECTRICAL DIAGRAMS

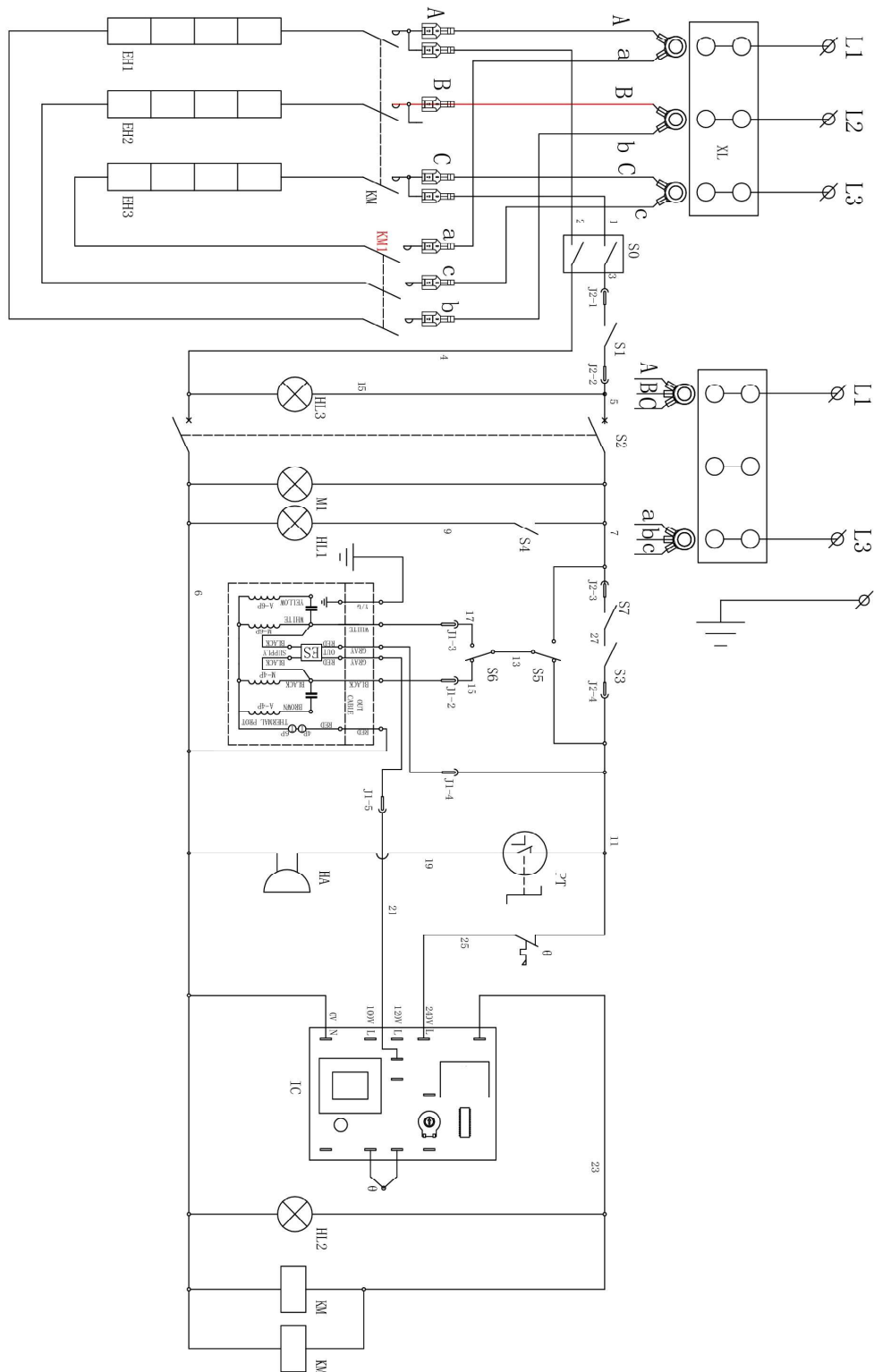
208V



Symbol	Description
XL	Connecting Terminal
KM1/KM2	AC Contactor
EH1 EH2 EH3	Electric Heating Tubes
S0	ALCI
S1	Protection Switch of Electrical Box
S2	Power Switch
S3	Door Control
S4	Interior Light Switch
S5	Cooling Switch

Symbol	Description
S6	Fan Switch (HI or LOW)
HL1	Interior Light
HL2/HL3	Indicator Light
M	Motor
PT	Timer
HA	Buzzer
IC	Electronic Thermostat
θ	Temperature Limiter
M1	Cool Fan

240V





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OPERATING INSTRUCTIONS CONTROL PANEL

Power Switch

Switch ON to use the oven; switch OFF when done using the oven.

Cook Timer

Turn knob to set a cook time. An alarm will sound when the timer runs out. Turn the knob to OFF to cancel the alarm. The timer is a reminder to the user; the timer does not control the oven.

Power Indicator

Lights up when the unit is connected and the Power Switch is on the "ON" position.

HI/LOW Fan Speed

Use to select fan speed (HI/LOW). The appropriate speed is determined by the type of food being cooked.

Fan Mode

In COOK mode, the fan runs continuously except when the doors are open. The fan does not cycle with the operation of the burners. In COOL mode, the fan runs continuously even if the doors are open. To rapidly cool the oven after cooking is completed, open the doors and switch the fan mode to COOL.

HEAT-ON Indicator

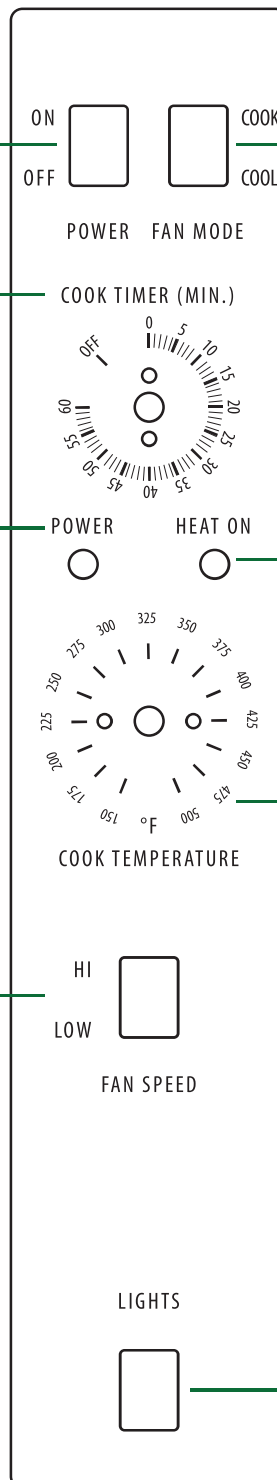
The HEAT-ON indicator will light when the burners are on and will remain on while the oven preheats.

Cook Temperature Control

Turn the knob to desired temperature. When the set point is reached, the HEAT ON indicator will be off. When the burners maintain the set temperature, the indicator will cycle between ON and OFF.

Oven Interior Light Switch

Press to turn on the light. The light is controlled independently.



COOKING INSTRUCTIONS

1. Turn the oven ON using the power switch at the top of the control panel.
2. Select the desired fan speed using the fan speed switch. The appropriate fan speed (HI or LOW) depends on the type of food being cooked.
3. Switch the fan mode to COOK. The fan will run continuously when the oven doors are closed (the fan does not cycle on and off with the burners). If this switch is set to COOL, the fan will continue to run when the oven doors are open.
4. Set the cooking temperature by turning the cook temperature control until the indicator mark on the knob is pointed to desired cooking temperature. The HEAT ON indicator will light when the burners are on and will remain on while the oven preheats.
5. Wait until the HEAT ON indicator has gone out. At that time the oven will have reached the set cooking temperature.
6. Open the oven doors, load the product into the oven, and close the doors.
7. You can use the cook timer as a reminder of when to remove the product from the oven. Turn the cook timer knob until the indicator mark points to the desired cooking time (up to 55 minutes). The timer knob will rotate counterclockwise as the timer runs down, indicating how much time remains. You can turn the knob while cooking to increase or decrease the remaining time. When the timer runs out, a buzzer will sound for a short time, then turn itself off. (To immediately silence the buzzer, turn the cook timer knob to the OFF position.) The timer is a reminder to you; it does not control the oven.
 - If you open the oven doors, the burners and fan will shut off until the doors are closed. However, the timer will continue running even if the doors are open.
 - To turn on the oven light, press and hold the switch located at the bottom of the control panel.
8. To rapidly cool the oven cavity when finished cooking: turn thermostat down to lowest level, open the oven door, switch the fan to COOL mode, and fan speed to HI. This will cause the fan to run even with the doors open.
9. When you are done cooking, turn the cook temperature control to the lowest setting (fully counterclockwise) and flip the power switch to OFF.

HIGH TEMPERATURE RESET



WARNING

Please unplug and disconnect unit before removing the bolt and opening the control panel to avoid injury.

1. Remove the 7 mm bolt that secures the control panel. (Fig. 1 & 2)
2. Open the control panel by carefully pulling down, lowering it from the top. (Fig. 3)
3. Reset the temperature limiter. The temperature limiter is installed on a small bracket behind the control panel (Fig. 4). Press the reset button manually. The unit will operate under the new settings once powered on.
4. Close the control panel and re-install the 7 mm bolt to secure.
5. Power the unit on for inspection.





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SAFETY PRECAUTIONS

WARNINGS

1. Always ensure proper supervision while the equipment is in use.
2. Simple adjustments to knobs, leg height, etc. do not require assistance from specialized personnel. For more technical adjustments, please consult a qualified technician.
3. Use only parts and accessories recommended by Main Street Equipment.
4. During the initial uses of the equipment, an acid or burning smell may be detected. This will disappear after two or three uses. Or set unit to 450-500°F for 30 min. or until smell starts to disappear, then turn unit off and let cool.
5. The equipment will remain hot for a short time after use (residual heat). Avoid all physical contact with the unit during this time to prevent injury.
6. This equipment is strictly for professional use and must be used by qualified personnel.
7. The installation, startup, and maintenance of this equipment must be carried out by a qualified technician.
8. All installation must be carried out according to the law. Main Street Equipment is not responsible for damages due to an incorrect installation, improper maintenance, or incorrect use.

NOTE: These are very important regulations; if they are neglected, the equipment may not perform properly or the user may be placed at risk and void manufacturer warranty.

CLEANING & MAINTENANCE

1. Before cleaning, turn off the unit and let it cool down.
2. Carefully clean the equipment daily to promote proper operation and long life.
3. Steel surfaces must be cleaned with cleaning agents such as Noble Chemical Sunbright, Noble Chemical Knockout, or Noble Chemical Blast, diluted in very hot water using a soft cloth; do not use abrasive powder detergents or corrosive substances. The use of acids can affect the unit's operation and user safety. Do not use brushes, steel cottons, or abrasive disks made with other metals or alloys that may cause rust stains due to contamination. For the same reason, avoid contact with iron objects. Do not use stainless steel brushes, as they can cause damaging scratches.
4. Metal powder, metal shavings, and iron material in general can cause stainless steel to rust. Superficial rust stains may be present on new equipment and can be removed with a detergent diluted in water and a scouring pad. If dirt is difficult to remove, a sponge may be used. Please note that rust is not covered by the warranty.
5. Use only approved substances to clean the unit, as some chemicals could damage the unit. Rinse properly after cleaning with clean water. Do not spray directly with water jet.
6. We recommend that the user subscribes to a maintenance agreement to have the equipment checked at least once per year by an authorized technician.
7. Before carrying out any maintenance or repair, disconnect and unplug the equipment. Use only original spare parts supplied by Main Street Equipment.
8. If the equipment is not going to be used for a long period of time, it is advised to clean the equipment and surrounding areas properly.