

OPERATION

MODELS HO300G AND HO300E MINI ROTATING RACK OVENS

MODEL

HO300E (ELECTRIC) ML-132177
HO300G (GAS) ML-132178



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FORM 36705 (Oct. 2005)

IMPORTANT FOR YOUR SAFETY

THIS MANUAL HAS BEEN PREPARED FOR PERSONNEL QUALIFIED TO INSTALL GAS EQUIPMENT, WHO SHOULD PERFORM THE INITIAL FIELD START-UP AND ADJUSTMENTS OF THE EQUIPMENT COVERED BY THIS MANUAL.

POST IN A PROMINENT LOCATION THE INSTRUCTIONS TO BE FOLLOWED IN THE EVENT THE SMELL OF GAS IS DETECTED. THIS INFORMATION SHOULD BE OBTAINED FROM THE LOCAL GAS SUPPLIER.

IMPORTANT

IN THE EVENT A GAS ODOR IS DETECTED, SHUT DOWN UNITS AT MAIN SHUTOFF VALVE AND CONTACT THE LOCAL GAS COMPANY OR GAS SUPPLIER FOR SERVICE.

FOR YOUR SAFETY

DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS OR LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

WARNING: IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE PROPERTY DAMAGE, INJURY OR DEATH. READ THE INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS THOROUGHLY BEFORE INSTALLING OR SERVICING THIS EQUIPMENT.

IN THE EVENT OF A POWER FAILURE, DO NOT ATTEMPT TO OPERATE THIS DEVICE.

KEEP AREA AROUND OVEN CLEAR OF COMBUSTIBLES. DO NOT OBSTRUCT COMBUSTION AND VENTILATION OPENINGS ON THE OVEN.

This manual has been prepared to provide information in accordance with ANSI Z83.11-2004 for gas equipment.

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OPERATION AND CARE OF MODELS HO300G AND HO300E MINI ROTATING RACK OVENS

KEEP THIS MANUAL FOR FUTURE USE

GENERAL

Models HO300G (Gas) and HO300E (Electric) Mini Rotating Rack Ovens feature the choice of two rack configurations:

- Eight 18" x 26" (45.7 cm x 66 cm) pan capacity rack with 4" (10.2 cm) slide spacing
- Six 18" x 26" (45.7 cm x 66 cm) pan capacity rack with 5.31" (13.5 cm) slide spacing

Both oven rack options can be ordered in an end-load or side-load design. A mechanism in the ceiling rotates the rack during baking.

Model HO300G is rated at 95,000 BTU/hr (natural or propane gas). Model HO300E is rated at 18.0 kW (electric).

Hobart Mini Rotating Rack Ovens are produced with quality workmanship and material. Proper installation, usage and maintenance of the rack oven will result in years of satisfactory performance.

It is suggested that you thoroughly read this manual and carefully follow the instructions provided.

INSTALLATION

In order to validate the warranty, the start-up must be performed by an Authorized Service Representative. Before installing, verify that the electrical service(s) and type of gas supply (natural or propane) agree with the specifications on the data plate located on top of the oven. If the supply and equipment requirements do not agree, do not proceed with the installation. Contact Hobart Bakery Systems immediately.

UNPACKING

This oven was inspected before leaving the factory. The transportation company assumes full responsibility for safe delivery upon acceptance of the shipment. Immediately after unpacking, check for possible shipping damage. If the oven is found to be damaged, save the packaging material and contact the carrier within 15 days of delivery.

Carefully unpack the oven and place in a work-accessible area as near to its final installed position as possible. Remove protective covering from exterior surfaces prior to placing oven in final location.

LOCATION

The HO300G and HO300E Mini Rotating Rack Ovens must have the following minimum clearances to combustibles:

- Back and sides: 0"
- Bottom: 0"
- Top: 18" (45.7 cm)

NOTE: Minimum 24" clearance needed for service access on the right side. If right side is within 30" of radiant heat or grease vapor source, vent guard is required.

Be sure that electrical, water and drain connections are accessible and can be made per local and national codes. The equipment area must be kept free and clear of combustible substances.

Do not obstruct the flow of combustion and ventilation air. Adequate clearance for air openings into the combustion chamber must be provided. Make sure there is an adequate supply of air in the room to replace air taken out by the ventilating system.

INSTALLATION CODES AND STANDARDS

The oven must be installed in accordance with:

In the United States of America:

1. State and local codes.
2. *National Fuel Gas Code*, ANSI-Z223.1 (latest edition). Copies may be obtained from The American Gas Association, Inc., 1515 Wilson Blvd., Arlington, VA 22209.
3. *National Electrical Code*, ANSI/NFPA-70 (latest edition).

In Canada:

1. Local codes.
2. CAN/CGA-B149.1 *Natural Gas Installation Code* (latest edition).
3. CAN/CGA-B149.1 *National Fuel Gas Code* (latest edition), available from The Canadian Gas Association, 178 Rexdale Blvd., Etobicoke, Ontario, Canada M9W 1R3.

ASSEMBLY

The oven must be installed on a stand, proofer cabinet or any noncombustible surface.

The oven must be sealed to the stand, proofer cabinet or surface with an NSF-approved sealant, such as Dow Corning 732 or GE RTV108.

Secure the oven to the proofer or stand using the provided tie-down brackets, which mount on the rear of the oven. (See Accessories - HPC800 Proofing Cabinet for proofer specifications.)

Oven Mounted on a Stand or Proofer with Caster

For an appliance equipped with casters, instructions that (1) the installation shall be made with a connector that complies with the Standard for *Connectors for Movable Gas Appliances*, ANSI Z21.69 or *Connectors for Moveable Gas Appliances*, CAN/CGA-6.16, and a quick-disconnect device that complies with the Standard for *Quick-Disconnect Devices for Use With Gas Fuel*, ANSI Z21.41, or *Quick Disconnect Devices for Use with Gas Fuel*, CAN1-6.9, (2) adequate means must be provided to limit the movement of the appliance.

GAS CONNECTIONS

CAUTION: Gas supply connections and any pipe joint compound must be resistant to the action of propane gases.

The HO300G is an indirect gas-fired oven, consisting of a heat exchanger with eight independent, U-shaped tubes, each with a separate in-shot burner rated at 11,875 BTU/hr for a total input of 95,000 BTU/hr.

WARNING: PRIOR TO LIGHTING, CHECK ALL JOINTS IN THE GAS SUPPLY LINE FOR LEAKS. USE SOAP AND WATER SOLUTION. DO NOT USE AN OPEN FLAME.

TESTING THE GAS SUPPLY SYSTEM

When gas supply pressure exceeds $\frac{1}{2}$ psig (3.45 kPa), the oven and its individual shutoff valve must be disconnected from the gas supply piping system.

When gas supply pressure is $\frac{1}{2}$ psig (3.45 kPa) or less, the oven should be isolated from the gas supply system by closing its individual manual shutoff valve.

VENTILATION

Information on the construction and installation of ventilating hoods may be obtained from the standard for *Vapor Removal from Cooking Equipment*, NFPA No. 96 (latest edition), available from the *National Fire Protection Association*, Batterymarch Park, Quincy, MA 02269.

Exhaust Fan Interlock

A connection point (maximum 5-amps) is provided for Indirect Vent (Exhaust Hood) or optional Direct Vent (Draft Hood). It is located behind the right side service panel adjacent to the 120 V power connection. Consult local codes for vent interlock requirements.

Indirect Vent (Under Exhaust Hood) - Standard

Locate the oven under an exhaust hood with adequate overhangs and exhaust rates to completely capture the byproducts of combustion discharged from the flue. From the termination of the flue to the filters of the hood venting system, a minimum clearance of 18" must be maintained. The hood exhaust fan must be electrically interlocked with the oven.

PLUMBING CONNECTIONS

WARNING: PLUMBING CONNECTIONS MUST COMPLY WITH APPLICABLE SANITARY, SAFETY AND PLUMBING CODES.

Oven water supply should have a hardness of 4 to 6 grains per gallon, pH of 6.5 to 8.0 and chlorides less than 30 PPM. Water condition outside of these requirements may void the warranty. Please consult your local water company and/or water condition dealer before installing oven.

Connect the cold water supply to the $\frac{1}{2}$ " NPT incoming water connection located at the rear of the oven, with the 6-ft, flexible, clear, water line provided. Water supply should have a pressure of 30 to 75 psi (207 to 517 kPa) when the steam solenoid is open.

DRAIN CONNECTIONS

Connect a 1/2" drain line to the 1/2" NPT drain connection located at the rear of the oven. Route the drain line to a floor drain, allowing a minimum 1" air gap between the drain line outlet and floor drain.

If oven is being installed on an HPC800 Proofing Cabinet, it is recommended that separate drain lines be provided. If it is necessary to interconnect the oven and proofer drains, provide a vent opening in the drain line above the oven drain connection location. Adequate drop must be provided such that the oven drain will not flood the proofer cabinet.

ELECTRICAL CONNECTIONS

WARNING: ELECTRICAL AND GROUNDING CONNECTIONS MUST COMPLY WITH THE APPLICABLE PORTIONS OF THE NATIONAL ELECTRICAL CODE AND/OR OTHER LOCAL ELECTRICAL CODES.

WARNING: DISCONNECT THE ELECTRICAL POWER TO THE MACHINE AND FOLLOW LOCKOUT / TAGOUT PROCEDURES.

WARNING: APPLIANCES EQUIPPED WITH A FLEXIBLE ELECTRIC SUPPLY CORD ARE PROVIDED WITH A THREE-PRONG GROUNDING PLUG. THIS PLUG MUST BE CONNECTED INTO A PROPERLY GROUNDED THREE-PRONG RECEPTACLE. IF THE RECEPTACLE IS NOT THE PROPER GROUNDING TYPE, CONTACT AN ELECTRICIAN. DO NOT REMOVE THE GROUNDING PRONG FROM THIS PLUG.

The wiring diagram is located behind the side service panel on the right side of the oven.

Do not connect the HO300G gas model to the electrical supply until after gas connections have been made.

The HO300E is an electrically heated oven consisting of six W-shaped elements, each rated at 3.0 kW for a total input of 18.0 kW. The electrical input is shown in the table below:

Heating Circuit Supply Voltage

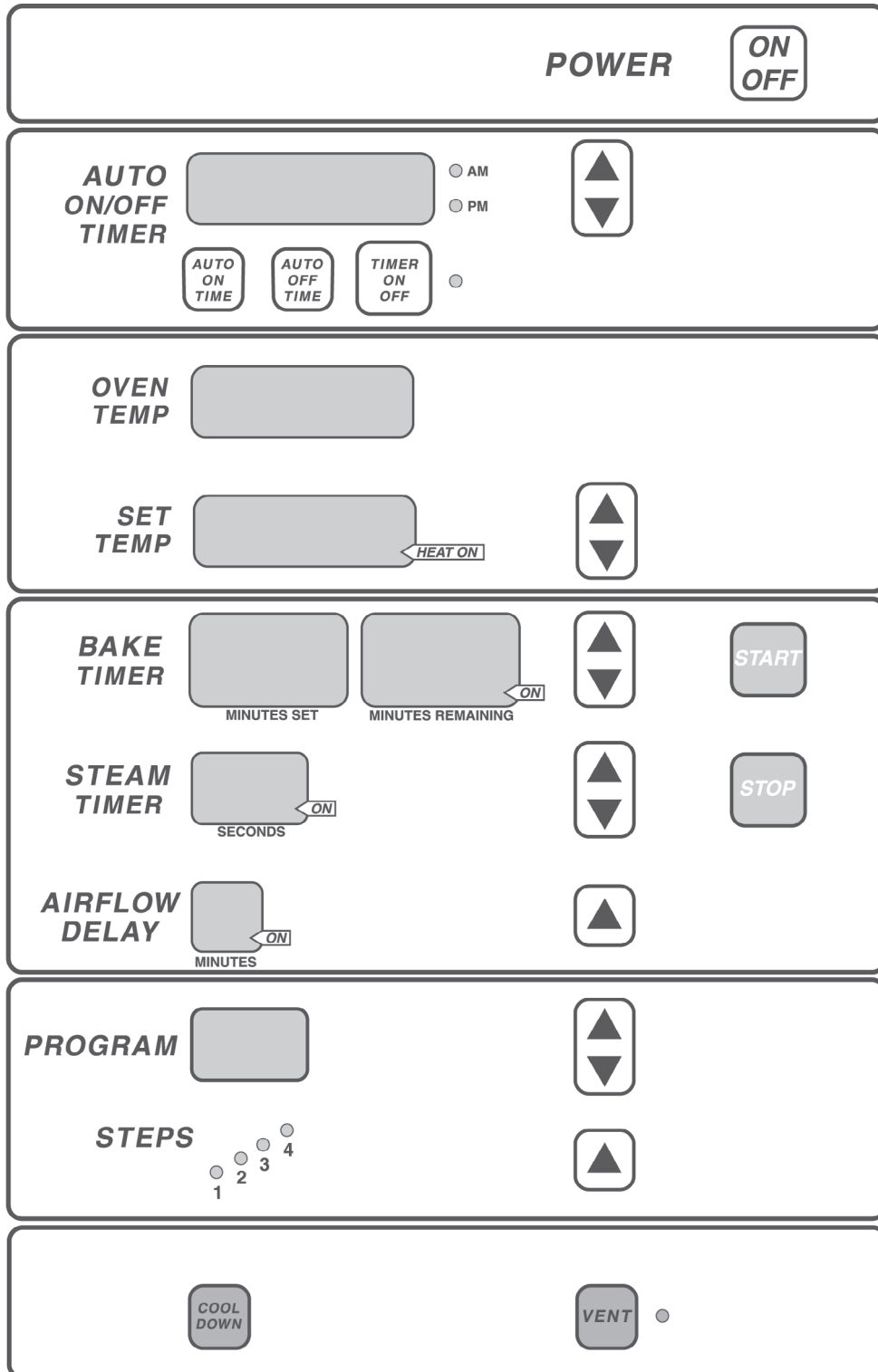
Volts	Hz	Phase	Amps
208	50-60	3	50
240	50-60	3	43
480	50-60	3	22

Both gas and electric ovens require a dedicated 15-amp, 110 V 50 Hz or 120 V 60 Hz, single-phase supply with ground, connected at the control circuit terminal block located behind the right side service panel. If oven is installed in conjunction with an HPC800 Proofing Cabinet, a separate 120 V supply is required for the proofer.











OPERATION

WARNING: THE MINI-RACK OVEN AND ITS PARTS ARE HOT. USE CARE WHEN OPERATING, SERVICING OR CLEANING THE OVEN.






CONTROLS



Control Guide

Button	Action	Display
POWER 	Press to turn the oven ON or OFF.	Control panel displays are lit when the oven is on. Oven defaults to Program 0. If oven is turned OFF and back ON within 2 minutes, the oven will come up in the last mode and oven setting.
AUTO ON/OFF TIMER 	Press to enter current time or time for oven to automatically turn ON or OFF, when corresponding Auto On Time or Auto Off Time button is pressed.	The AUTO ON/OFF TIMER window displays the current time or the time the oven will automatically turn ON or OFF.
AUTO ON TIME 	Press arrow keys to set the desired time of oven to automatically turn ON.	The AUTO ON/OFF TIMER window displays the time the oven will automatically turn ON.
AUTO OFF TIME 	Press arrow keys to set the desired time of oven to automatically turn OFF.	The AUTO ON/OFF TIMER window displays the time the oven will automatically turn OFF.
TIMER ON/OFF 	Press to turn the automatic timer ON or OFF.	The indicator light beside the timer ON/OFF button is lit when the function is enabled.
SET TEMP 	Use to enter bake programs.	The SET TEMP window displays the set temperature. The heat ON light is lit while the oven is heating. The actual temperature in the oven cavity is displayed in the OVEN TEMP window.
BAKE TIMER 	Press arrow keys to enter the BAKE time (1 minute increments). Press the up arrow key to enter additional time at the end of the bake program.	The BAKE TIMER window displays the amount of time for the current baking cycle. The minutes set are the left two digits and minutes remaining are the right two digits. The windows can be set to display hours and minutes remaining. The ON light is lit when bake time is active.
STEAM TIMER 	Press to enter the STEAM time (5-second increments in Bakery mode; 1-second increments in Food Service mode).	The STEAM TIMER window displays the amount of time set for the steam cycle. The ON light is lit when the steam system is active.
AIRFLOW DELAY 	Press to enter into beginning of baking cycle.	The DELAY TIMER window displays the amount of time set for the circulation blower delay cycle 0-9 minutes.
	Press to start the BAKE TIMER.	The ON light blinks when the BAKE TIMER is active.

Control Guide (cont)

Button	Action	Display
	Press to stop the BAKE TIMER or silence the beeper after the BAKE TIMER has timed out.	The ON light is off when the BAKE TIMER is inactive.
PROGRAM 	Press the arrow keys to select a bake program.	The PROGRAM window displays the number of the current program.
STEP 	Use to enter bake programs.	The corresponding indicator light will be lit (1 to 4), depending on which step is selected.
	Press to open or close the vent.	The indicator light next to the VENT button is lit when the vent cycle is enabled.
	Use to cool down the oven.	To enable this feature, set a temperature at least 25°F (14°C) cooler than the oven temperature. Press the COOL DOWN button. The COOL DOWN mode is exited when the oven reaches the new set temperature, or if door is opened when temperature is 25°F (14°C) below set temperature, or by pressing any button.

Auto ON/OFF Timer

Setting Clock

Auto ON/OFF Timer display shows the current time of day. To set the clock, the control must be turned on. Press and hold either of the arrow buttons until the colon between the hours and minutes display stops blinking. Use the up and down arrow buttons to adjust time of day. After 5 seconds of no use, the colon will start to blink again.

The oven can be set to turn itself on and off. After the Auto ON/OFF Timer is set, the POWER ON OFF button can be pressed to turn the oven off. This will not disrupt the AUTO ON/OFF setting. Electrical power to the oven must remain on.

1. To set the oven to turn on, press and *hold* the AUTO ON TIME button. The previously entered start time will appear in the display. Use the UP and DOWN arrows to adjust the start time. Then release the AUTO ON TIME button.
2. To set the oven to turn off, press and *hold* the AUTO OFF TIME button. The previously entered end time will appear in the display. Use the UP and DOWN arrows to adjust the end time. Then release the AUTO ON TIME button.
3. To enable the automatic start, press the TIMER ON/OFF button until the indicator LED to the right of the TIMER ON/OFF button is illuminated.

Backup Battery

The clock is backed up by a lithium battery which keeps the clock circuitry operating when all external power is off. If the battery becomes low or dead while the external power is off, the display will read 12:00 (12 hr mode) or 0:00 (24 hr mode) and will not increment until a new time is set. The clock will operate with a dead or missing battery, but must be set each time external power is turned on. Batteries should be replaced when low or dead to avoid corrosive damage to the circuitry.

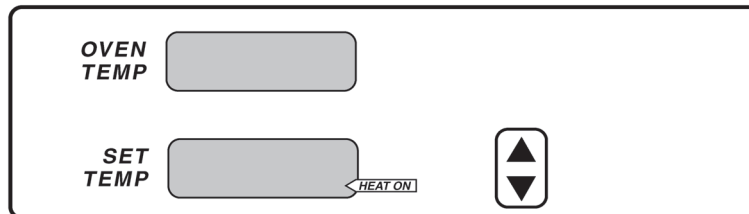
Oven Preheat

For best results, the oven must be preheated to bake temperature before baking begins.

1. Press the POWER ON OFF button to turn the oven ON.



2. Press the UP or DOWN arrows in the TEMP section to enter the desired baking temperature.



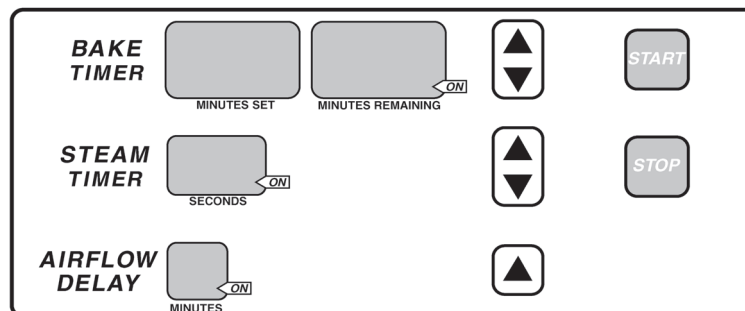
3. Confirm that the doors are closed.
4. Allow 50 minutes after the oven has reached the set temperature for the steam system to charge.
5. The oven is now ready for baking operations.

Basic Operation

WARNING: THE OVEN AND ITS PARTS ARE HOT. TO PREVENT BURNS, USE HOT PADS OR PROTECTIVE MITTS WHEN LOADING OR UNLOADING THE OVEN.

WARNING: HOT AIR AND STEAM ARE RELEASED FROM THE OVEN INTERIOR WHEN THE LOADING DOORS ARE OPENED. TO AVOID BURNS, OPEN THE DOORS SLOWLY AND KEEP CLEAR OF THE OPENING.

1. Preheat the oven. See Oven Preheat.
2. Manually select baking settings:



- Press the UP or DOWN arrows next to BAKE TIMER to enter the desired value.
 - Press the UP or DOWN arrows next to STEAM TIMER to enter the desired value.
 - Press the UP arrow next to AIRFLOW DELAY to enter the desired value.
 - The steam and airflow delay settings are optional and can be left at 0 if desired.
3. Slowly open the doors. Wait for the rack to stop. Load the oven. Close the doors.
 4. Press the START button. The ON light in the BAKE TIMER window blinks until the timer times out.
 5. The oven beeps after the BAKE TIMER times out. Press STOP to silence the beeper.

Operational Hints

- On the initial startup, the oven temperature will default to the factory setting of 375°F (191°C) unless changed using customized operations.
- During a baking cycle, the START and STOP buttons control the BAKE, STEAM and AIRFLOW DELAY settings only. They have no effect on the oven heat. When the BAKE TIMER times out, the oven heat stays at the set temperature. Care should be taken not to overbake products.
- To adjust the temperature during a baking cycle, press the UP or DOWN arrows in the Oven Temp section to enter the new temperature.
- To adjust the BAKE, STEAM and AIRFLOW DELAY settings, press the corresponding arrows to enter the new values. Press START when finished.
- Circulation blower will pulse during a steam cycle to assist steam distribution. It does not attain full speed.
- If the doors are opened at any time during the baking cycle, the TEMP, BAKE TIME, STEAM and AIRFLOW DELAY settings will pause. Close the doors to resume all functions.
- The AIRFLOW DELAY option minimizes airflow at the beginning of the baking cycle. The heat is off while the AIRFLOW DELAY is activated.
- If the oven temperature is more than 20°F (11°C) higher than the set temperature, and the bake timer is not activated, the oven will automatically open the VENT. The VENT will remain open until the oven temperature is within 20°F (11°C) of the set temperature.
- The oven monitors the heating system by comparing the current oven temperature to the set temperature. If a problem arises in the heating system or there is a heating system failure, both temperature displays will flash. If the problem continues, contact your authorized Bakery Systems service agency.
- The COOL DOWN feature provides a means of cooling down the oven. To enable this feature, set a temperature at least 25°F (14°C) cooler than the oven temperature. Press the COOL DOWN button—the display alternately shows the set temperature and COOL and the vent opens. Additionally, the doors can be opened and the circulation fan will continue to run. The COOL DOWN mode is exited by the oven temperature reaching set temperature (25°F (14°C) below set temperature if doors are opened) or by pressing any button.
- The oven rack will rotate only after there is time entered into the bake timer and the start button has been pressed. Rotation will start when both doors are closed. If there is no time entered into the bake timer, the display will flash. Press STOP and the controller will stop flashing. Once started, the rack will continue to rotate until a door is opened.
- Circulation fan will stop running if the oven set point is reached and there is no ("0") time displayed on the controller.

FOOD SERVICE STEAM MODE

This mode can be used to provide steam on a periodic basis throughout operation. When this mode is enabled, the STEAM TIMER controls how many seconds of steam are provided to the oven, while a value entered in the Parameter 14 (P14) setup controls how frequently the steam is operated.

To enable the Food Service Steam mode:

1. Enter the parameter setup mode. (See Entering Setup Mode.)
2. Select Parameter 14.
3. If the BAKE TIMER window displays '0', it is set up for Bakery Mode (factory default). Press the UP or DOWN arrow buttons to enter FSS mode (display will change to a 3-digit number).
4. Set the desired time between steam cycles using the UP or DOWN arrow buttons. The range is from 300 seconds (5 min.) to 990 seconds (approximately 17 min.), and increments by 10 seconds at a time.
5. After setting the desired cycle, press the POWER ON OFF button to save the settings.
6. The STEAM TIMER will now operate in 1-second increments, up to 10 seconds, to set the duration of steaming.

Examples: '300' is selected for P14

'3' is entered in STEAM TIMER

= steam is turned on for 3 seconds every 300 seconds (5 min.)

'990' is selected for P14

'3' is entered in STEAM TIMER

= steam is turned on for 3 seconds every 990 seconds (17 min.)

To return the oven to Bakery Mode, repeat the above process to access P14 and set the value in the BAKE TIMER window to '0'. The STEAM TIMER will now operate in 5-second increments.

SAFETY ALARM (STANDARD FEATURE, NO PARAMETER SETUP REQUIRED)

If the temperature at the probe is in the range of 570 - 600 degrees Fahrenheit for 10 seconds, the unit will do the following:

1. Shut off all features.
2. Sound an alarm.
3. Flash the OVEN TEMP display (actual temperature is displayed).
4. Display the letters 'SHdn' in the BAKE TIMER display.

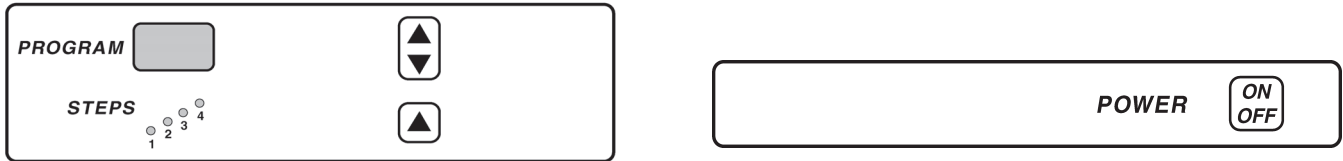
WARNING: DISCONNECT THE ELECTRICAL POWER TO THE MACHINE AND FOLLOW LOCKOUT / TAGOUT PROCEDURES. THERE MAY BE MULTIPLE CIRCUITS. BE SURE ALL CIRCUITS ARE DISCONNECTED.

WARNING: IF GAS OVEN, SHUT OFF GAS. CONTACT YOUR AUTHORIZED HOBART BAKERY SYSTEMS SERVICE OFFICE. DO NOT ATTEMPT TO RESTART THE OVEN UNTIL IT HAS BEEN INSPECTED BY AN AUTHORIZED SERVICER.

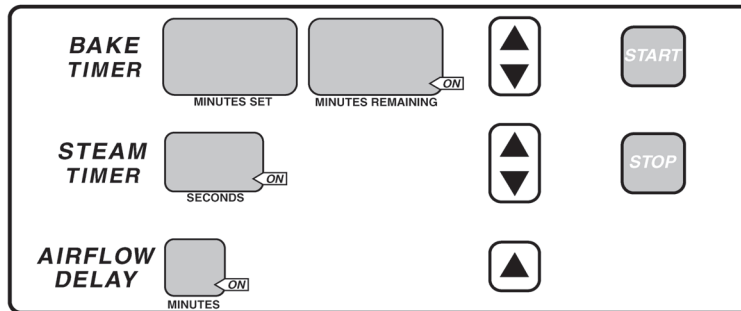
PROGRAMMING THE OVEN

Single Step Programming

The program menu stores up to 99 programs that can be recalled by number when needed. A program is a set of baking instructions (temperature, bake, steam and airflow delay settings) that the operator defines for any baking operation.



1. With the oven in the OFF mode, press and hold the UP arrow in the STEPS section. While pressing and holding the UP arrow, press the POWER ON OFF button for 3 seconds. When the beep sounds, the oven is in program mode.
2. Press the PROGRAM UP or DOWN arrows until the program number that is desired is displayed.
3. Press the TEMP UP or DOWN arrows to enter the desired temperature.



4. Set the Bake, Steam, Delay Airflow and Vent settings:
 - Press the UP or DOWN arrows next to BAKE TIMER to enter the desired time.
 - Press the UP or DOWN arrows next to STEAM TIMER to enter the desired time.
 - Press the UP arrow next to AIRFLOW DELAY to enter the desired time.

NOTE: Steam and airflow delay settings are optional and can be left at 0 if desired.

- Press the VENT button to vent the cavity for the entire time of the step. When step is complete, vent will close.

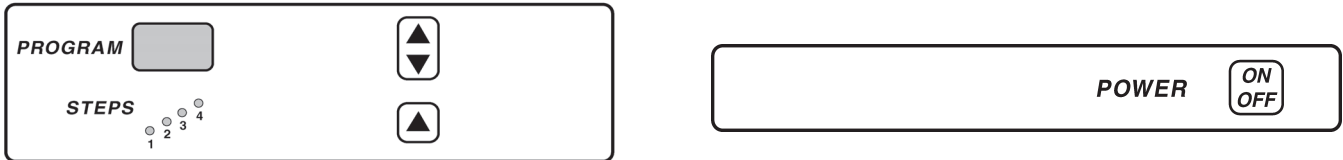


5. To store the program, press the PROGRAM UP or DOWN arrows to move to the next program number or press the POWER ON OFF button to exit the program mode. To store additional program settings, repeat steps 2 to 4.
6. Record program numbers and product associated with them.

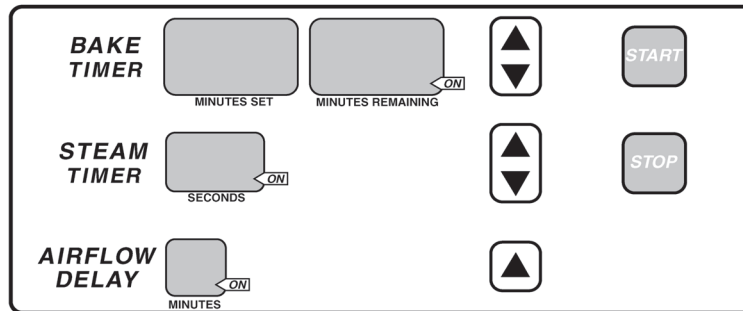
Multi-Step Programming

Additional programs or steps can be entered within the original program number. Up to four individual steps can be added by the operator, each with different bake settings.

For example, Program 1 has temperature, bake, steam and delay time settings set by the operator. This is known as Step 1. After the timer times out in Step 1, the oven automatically starts the programmed bake settings in Step 2. The system continues with each step until all steps have been timed out.



1. With the oven in the OFF mode, press and hold the UP arrow in the STEPS section. While pressing and holding the UP arrow, press the POWER ON OFF button for 3 seconds. When the beep sounds, the oven is in program mode.
2. Press the PROGRAM UP or DOWN arrows until the program number that is desired is displayed. The Step 1 light is lit.
3. Press the TEMP UP or DOWN arrows to enter the desired temperature.



4. Set the Bake, Steam, Delay Airflow and Vent settings:
 - Press the UP or DOWN arrows next to BAKE TIMER to enter the desired time.
 - Press the UP or DOWN arrows next to STEAM TIMER to enter the desired time.
 - Press the UP arrow next to AIRFLOW DELAY to enter the desired time.

NOTE: The steam and airflow delay settings are optional and can be left at 0 if desired.

- Press the VENT button to vent the cavity for the entire time of the step. When step is complete, vent will close.

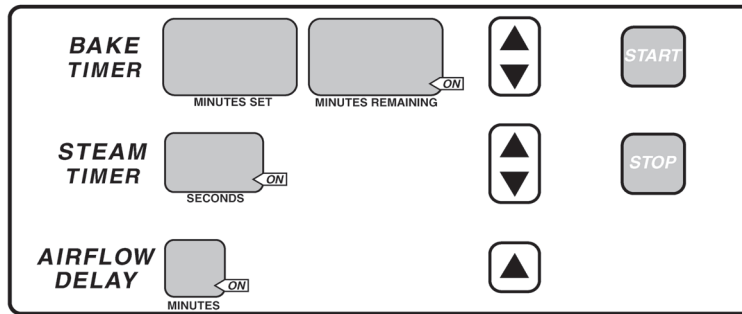


5. Press the UP arrow in the STEPS section to advance to the next step within the program. The selected step light is lit. Repeat steps 3 and 4 above to set each step, if needed, in the program.
6. To store all the steps in the program, press the PROGRAM UP or DOWN arrows to move to the next program number, or press the POWER ON OFF button to exit the program mode.

Changing the Programs



1. With the oven in the OFF mode, press and hold the UP arrow in the STEPS section. While pressing and holding the UP arrow, press the POWER ON button for 3 seconds. When the beep sounds, the oven is in program mode.
2. Press the PROGRAM UP or DOWN arrows until the program number that is desired is displayed.



3. Enter the new Bake, Steam and Delay Airflow settings:

- Press the UP or DOWN arrows next to BAKE TIMER to enter the desired time.
- Press the UP or DOWN arrows next to STEAM TIMER to enter the desired time.
- Press the UP arrow next to AIRFLOW DELAY to enter the desired time.

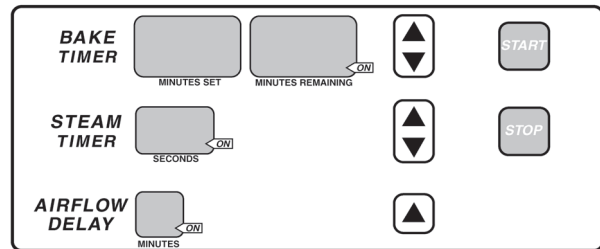
NOTE: The steam and airflow delay settings are optional and can be left at 0 if desired.



4. To change the settings in a Step, press the UP arrow in the STEPS section and make changes in each step accordingly.
5. To store the program, press the PROGRAM UP or DOWN arrows to move to the next program number or press the POWER ON OFF button to exit the program mode.

USING THE PROGRAMS

1. Press the PROGRAM UP or DOWN arrows to select the desired program number (1-99). The TEMP, BAKE, STEAM and AIRFLOW DELAY settings are displayed.



2. Confirm that the oven is at the set baking temperature.
3. Slowly open the doors. Wait for the rack to come to a stop.
4. Load product into oven.
5. Close the doors.
6. Press START. A beeper will sound after the BAKE TIMER times out. Press STOP to silence the beeper.
7. Check product for doneness.

IF NOT DONE — If more bake time is needed, press the Bake Timer UP ARROW key until the desired time appears on the Minutes Set window. Press the START Key. The Timer On indicator light will start blinking.

IF DONE — Allow rack to stop and remove pans.

Program Hints

- The oven defaults to the Program 0 settings when first turned on. Program 0 settings are as follows: Temp = 375°F, Bake Timer = 0, Steam Timer = 0, Delay Timer = 0, Program = 0.
- Any combination of bake settings can be manually entered for one-time custom baking operations. These settings are not saved to the program memory.
- If any of the baking parameters are changed in a program before or during a bake cycle, the oven reverts to a manual program (Program 0) indicating that the program has been altered. The oven will continue to operate all the program steps as displayed.
- The PROGRAM UP and DOWN arrows have no effect while the bake cycle is in progress. However, if the BAKE TIMER has been stopped, either by pressing the STOP button or by opening the door, then pressing the PROGRAM UP and DOWN arrows will select a new program and cancel the baking cycle that was in progress.
- When selecting programs, the system will skip over unprogrammed numbers. For example, if Program 1 is displayed in the PROGRAM window and no programs are stored in 2, 3 and 4, then the system will skip over 2, 3 and 4. Program 5 will be the next program displayed.
- Vent opening programs the vent to open for "P10" seconds full open and then for "P11" seconds every 60 seconds.

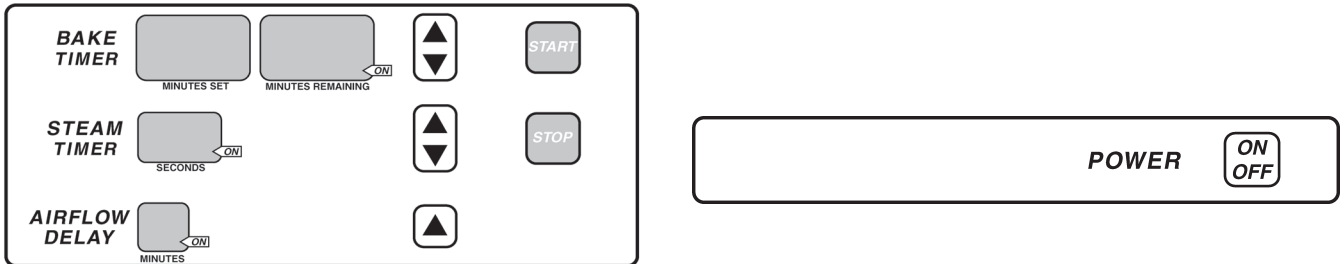
CUSTOMIZED OPERATION

The Mini-Rack oven controls have the capability of being customized to fit your own personal needs using the setup mode.

Before entering the setup mode, read all the instructions to make sure you are completely clear on what to do. If you need assistance, please call your authorized Hobart Bakery Systems service agency.

Entering Setup Mode

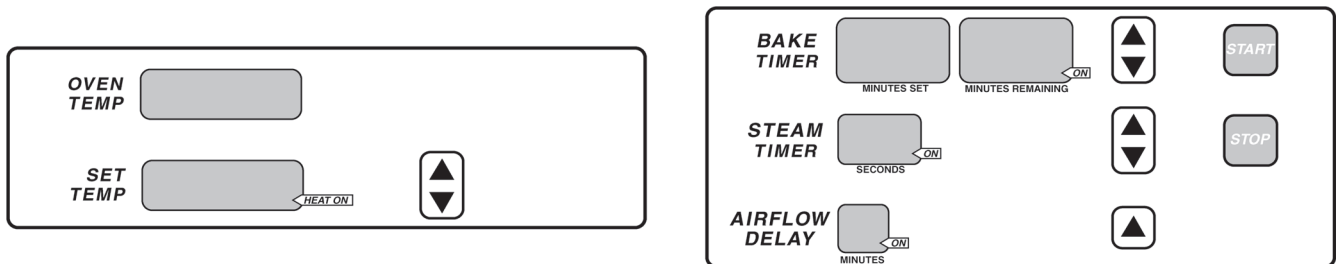
With the oven in the OFF mode, press and hold the START button. While pressing and holding the START button, press the POWER ON OFF button for 3 seconds. The oven is now in Setup mode and P1 is displayed in the SET TEMP window.



Changing Items in Setup Mode

The number in the SET TEMP window is the setup number. The BAKE TIMER window displays the setup item (the settings that can be changed).

1. To change the setup number, press the SET TEMP UP or DOWN arrows. The setup item will be displayed in the BAKE TIMER window.



2. To make a change in the setup item being displayed, press the BAKE TIMER UP or DOWN arrows. To adjust the setting, see Setup Guide. Do not attempt to change item numbers P4, P5 and P8. Consult your authorized Hobart Bakery Systems service agency for help with these features.
3. To exit the setup mode, press the POWER ON OFF button.

Setup Guide

Setup Number	Setup Item	Display
P1	Maximum Temperature Setpoint	This is the maximum temperature at which the oven can be set. Range is 50°F to 525°F (10°C to 274°C).
P2	Preheat Temperature	This is the default temperature setpoint when the oven is first turned on (Program 0). The preheat temperature cannot be set higher than the value in P1. Range is 50°F to 525°F (10°C to 274°C).
P3	Minimum Temperature Setpoint	This is the minimum temperature at which the oven can be set. Range is 50°F to 200°F (10°C to 93°C).
P4	Temperature Offset	This value permits an offset of correction between the temperature probe and the real baking chamber temperature. Call your authorized Bakery Systems service agency for help with this feature.
P5	Heat OFF Offset	This value adjusts the temperature difference between the set point and stopping of the heating system. Call your authorized Bakery Systems service agency for help with this feature.
P6	Heat Difference Hysteresis	This value adjusts the temperature difference between the on temperature and off temperature of the heating system. Call your authorized Bakery Systems service agency for help with this feature.
P7	Maximum Steam Time	Time set is the maximum time (in seconds) that water is supplied during the STEAM TIMER operation.
P8	Temperature Units	The oven can be set to display temperature in Fahrenheit or Celsius. To ensure accurate temperature parameters, call your authorized Bakery Systems service agency for help with this feature.
P9	Bake Timer Mode	The BAKE TIMER can be set up to display minutes set/ minutes remaining or hours and minutes. Select 0 for minutes set/minutes remaining or 1 for hours and minutes. (If this parameter is changed to hours and minutes, a label has been provided to place on the control panel to indicate the change.)
P10	Vent Evacuate Time	Time set is the time (in seconds) that the vent is 100% open at the beginning of the venting cycle. Range is 0 to 180 seconds.
P11	Vent Open	This value is the seconds the bake chamber vent is open per 60 seconds after the vent evacuate time has expired. Range is 5 to 59.
P12	End of Bake Automatic Vent - Enable	This feature enables the Automatic Vent Cycle. Select 0 to disable or 1 to enable this feature (see P13 for entering time).
P13	End of Bake Automatic Vent Time	This is the number of minutes before the end of the bake cycle that the vent is open.

Setup Guide (cont)

Setup Number	Setup Item	Display
P14	Steam Timer Mode	The STEAM TIMER can be set up to function in Bakery mode "0" (single steam function at the beginning of step/cycle) or Food Service mode "300 to 990" seconds interval between steam functions.
P15	Interior Light Brightness	This value is the brightness of the interior lights. The higher the number, the brighter the lights. Range is 50 to 100.
P16	Clock Operation	This selects either 12 hours (AM/PM) or 24 hours real time display. Press the Bake Time Up button to switch between the two types of display.
P17	Temperature Setback Time	This selects the elapsed time from the last timed bake to when the oven will lower the oven set temperature to the value set in P18. Range is 10 to 180 minutes.
P18	Setback Temperature	This selects the oven set temperature that the oven will change to when the temperature setback time has been exceeded in P17. Range is 50°F to 300°F (10°C to 149°C).
P19	Lights Mode	Select 1 for lights on continuously (when oven is on) or select 0 for automatic operation. Lights will turn off automatically after 30 minutes of no user activity (door opened or closed, no buttons pushed).

SHUTDOWN

NOTE: Before restarting a gas oven, power and gas burner valve must be off for a minimum of 5 minutes.

1. Remove all remaining product.

NOTE: Vent can be used to evacuate steam from oven.

2. Allow the oven to cool, then press the POWER ON OFF button.
3. Clean the baking chamber. (See Cleaning.)
4. For lengthy shutdowns, disconnect the main power and shut off the gas and water supply.

CLEANING

WARNING: THE MINI-RACK OVEN AND ITS PARTS ARE HOT. USE CARE WHEN OPERATING, SERVICING OR CLEANING THE RACK OVEN.

WARNING: DISCONNECT THE ELECTRICAL POWER TO THE OVEN AND FOLLOW LOCKOUT / TAGOUT PROCEDURES.

- Allow the oven to cool.
- Clean the outside of the oven daily with a clean, damp cloth.
- Clean rack as you would any cooking utensil. Use warm, soapy water and a brush. Rinse with clean water and dry with a clean cloth.
- Use care when cleaning around sensitive interior parts, such as probes, sensors or the rotating mechanism.
- Gently scrape heavy buildup off door glass. Residue can be removed with a glass cleaner when oven is cool.
- Do not use cleaners containing grit, abrasive materials, bleach, harsh chemicals or chlorinated cleaners. Do not use oven cleaners. Do not use steel wool or stainless steel cleaners on stainless steel surfaces. Stainless steel polish can be used on the exterior of the oven, never on the interior. When polishing, follow the grain of the stainless steel.
- Never spray down the oven with water or steam.
- Be cautious with new or improved cleaning formulas; use only after being well tested.
- To rapidly cool down the oven, shut off the controller. Open both doors and press the vent button. This will run the circulation blower without any heat input until the door is closed.

ACCESSORIES - HPC800 PROOFING CABINET

The HO300 Mini Rotating Rack Oven can be ordered with the optional HPC800 Proofing Cabinet. The proofer is mounted on four casters (two front-swivel and two rear-fixed).

The HPC800 Proofer has a 16-pan capacity that accommodates 18" x 26" (45.7 cm x 66 cm) baking trays with 3" (7.6 cm) slide spacing. Temperature and humidity can be set independently to meet your particular proofing needs. Air is circulated continuously to provide positive movement from bottom to top, creating a uniform distribution of warm, moist air.

All HPC800 Proofers have easy-to-clean stainless steel interior and exterior panels with urethane foam insulation.

PLUMBING CONNECTIONS

WARNING: PLUMBING CONNECTIONS MUST COMPLY WITH APPLICABLE SANITARY, SAFETY AND PLUMBING CODES.

The proofer should have its own water supply line, separate from the oven.

The proofer water supply should have a hardness of 4 to 6 grains per gallon, pH of 6.5 to 8.0 and chlorides less than 30 PPM. Water condition outside of these requirements may void the warranty. Please consult your local water company and/or water condition dealer before installing proofer.

Connect the cold water supply to the $\frac{3}{8}$ " NPT incoming water connection, located at the rear of the proofer. Water supply should have a pressure of 30 to 75 psi.

DRAIN CONNECTIONS

Connect a $\frac{1}{2}$ " drain line to the $\frac{1}{2}$ " NPT drain connection located at the rear of the proofer. Route the drain line to a floor drain, allowing a minimum 1" air gap between the drain line outlet and floor drain.

Provide a vent opening in the drain line above the oven drain connection location.

ELECTRICAL CONNECTIONS

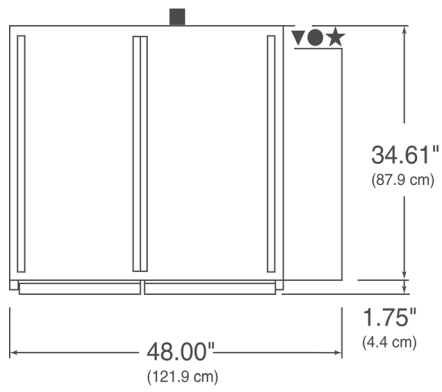
WARNING: ELECTRICAL AND GROUNDING CONNECTIONS MUST COMPLY WITH THE APPLICABLE PORTIONS OF THE NATIONAL ELECTRICAL CODE AND/OR OTHER LOCAL ELECTRICAL CODES.

WARNING: DISCONNECT THE ELECTRICAL POWER TO THE OVEN AND FOLLOW LOCKOUT / TAGOUT PROCEDURES.

WARNING: APPLIANCES EQUIPPED WITH A FLEXIBLE ELECTRIC SUPPLY CORD ARE PROVIDED WITH A THREE-PRONG GROUNDING PLUG. THIS PLUG MUST BE CONNECTED INTO A PROPERLY GROUNDED THREE-PRONG RECEPTACLE. IF THE RECEPTACLE IS NOT THE PROPER GROUNDING TYPE, CONTACT AN ELECTRICIAN. DO NOT REMOVE THE GROUNDING PRONG FROM THIS PLUG.

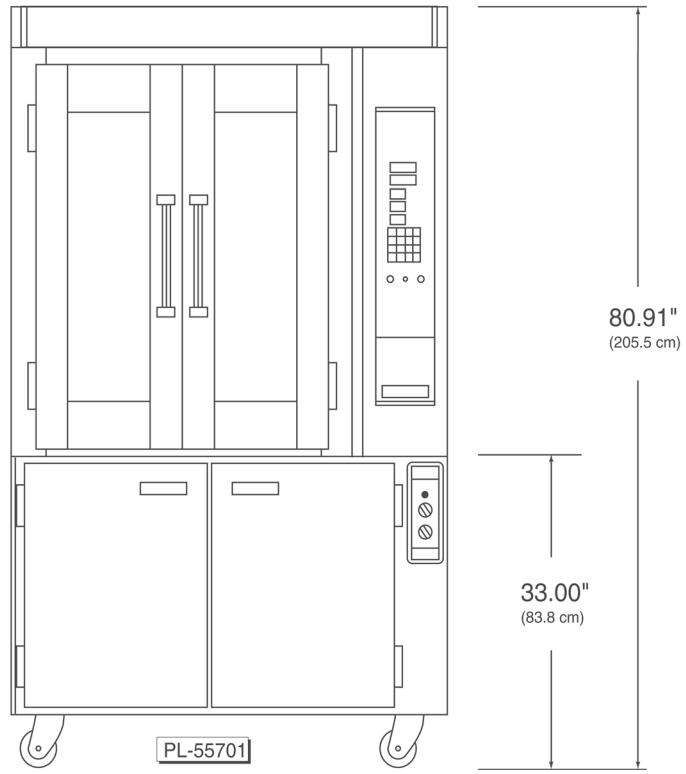
DIMENSIONS AND SERVICE CONNECTION DIAGRAM

TOP VIEW



Service Connection Points

- Power ▲
- Water ●
- Oven Drain ★
- Proofer Drain ■



Electrical Data		
Volts	120	220
Hertz	60	60
Amps	16	9
Phase	1	1

NOTE: The proofer must be wired separately from the oven.

CONTROLS

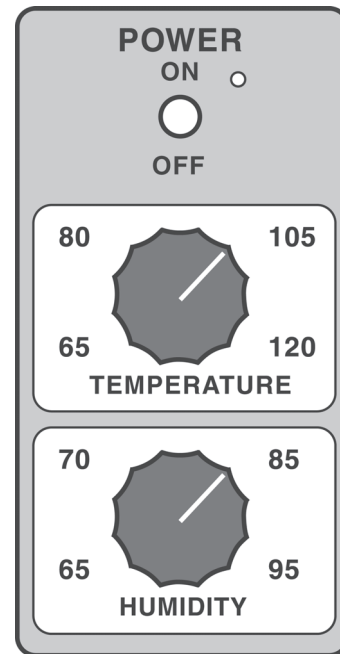
Proofing

1. Turn the power switch to the ON position.
2. Turn the temperature knob to the desired setting.
3. Turn the humidity knob to the desired setting.
4. Allow 15 to 20 minutes for the proofer to reach set temperature and humidity.
5. Load the product in the proofer.
6. Turn the power switch to the OFF position when done.

Proofing Hints

Controlled temperature and humidity in the proofer promotes yeast fermentation, which generates gas and causes the dough to rise. Proofing will vary from product to product. A temperature setting of 95°F (35°C) and humidity at 85% are typical but will vary, depending on the product being proofed and the amount of product being proofed.

- For best results, proof at lower temperatures rather than higher temperatures.
- To dry proof, set humidity to the lowest setting. At this setting, the humidity generator is turned off and will not produce humidity.
- For the best results, always allow your proofer to reach set temperature and humidity before putting product in.



PL-56135

MAINTENANCE

WARNING: THE MINI-RACK OVEN AND ITS PARTS ARE HOT. USE CARE WHEN OPERATING, SERVICING OR CLEANING THE OVEN.

WARNING: DISCONNECT THE ELECTRICAL POWER TO THE OVEN AND FOLLOW LOCKOUT / TAGOUT PROCEDURES.

GENERAL

As Needed

- Inspect the area around the oven. The area must be free and clear from combustibles. There must be no obstructions to the air flow.

Daily

- Clean exterior. (See Cleaning.)

Weekly

NOTE: Do not change air shutter settings when cleaning oven interior.

- Clean the oven interior and remove loose debris. (See Cleaning.)
- Clean the windows.

Bi-Monthly

- Owner Preventive Maintenance Procedures

Preventive Maintenance

The mini-rack oven should be kept on a regular preventive maintenance schedule. Ovens require specific preventive maintenance based on usage and environmental factors. The failure to have the oven properly maintained by following recommended preventive maintenance procedures may result in higher repair costs, shortened equipment life or unsafe operating conditions.

The performance of routine preventive maintenance on any rack oven, which is the owner's responsibility, will help to ensure continued safe and reliable operation.

A preventive maintenance program is your best option for continued safe and reliable oven operation. We believe that Hobart Bakery System Service is your best choice for performing preventive maintenance.

PARTS AND SERVICE INFORMATION

Contact your authorized Hobart Bakery Systems service agency.

TROUBLESHOOTING

The oven has been set at the factory to bake assorted product, such as bagels, cookies and muffins. If your bake is uneven, the shutters may need to be adjusted to achieve the desired results. Contact your authorized Hobart Bakery Systems service agency for assistance.

BURNERS WILL NOT LIGHT (GAS OVENS ONLY)

1. Press the ON/OFF button to turn the power OFF and wait 5 minutes.
2. Make sure the gas shutoff valve is in the ON position.
3. Press the ON/OFF button to turn the oven ON.

If the oven does not light on the second attempt, turn the gas shutoff valve to the OFF position and call your authorized Hobart Bakery System service agency.

SAFETY ALARM (STANDARD FEATURE, NO PARAMETER SETUP REQUIRED)

If the temperature at the probe is in range of 570 to 600°F for 10 seconds, the unit will do the following:

1. Shut off all features.
2. Sound an alarm.
3. Flash the OVEN TEMP display (actual temperature is displayed).
4. Display the letters 'SHdn' in the BAKE TIMER display.

WARNING: DISCONNECT THE ELECTRICAL POWER TO THE OVEN AND FOLLOW LOCKOUT / TAGOUT PROCEDURES. THERE MAY BE MULTIPLE CIRCUITS. BE SURE ALL CIRCUITS ARE DISCONNECTED.

WARNING: IF GAS OVEN, SHUT OFF GAS. CONTACT YOUR AUTHORIZED BAKERY SYSTEMS SERVICE OFFICE. DO NOT ATTEMPT TO RESTART THE OVEN UNTIL IT HAS BEEN INSPECTED BY AN AUTHORIZED SERVICER.

CIRCULATION MOTOR

To conserve energy, if there is no bake time (0) entered, the circulation blower will only run when oven is below set point and burner/heaters are on.

RACK ROTATION

The rack will not rotate if no time "0" is set and started.

Check to make certain that doors are properly closed.

PARTS AND SERVICE INFORMATION

Contact your authorized Hobart Bakery Systems service agency.

OWNER PREVENTIVE MAINTENANCE PROCEDURES

INTRODUCTION

This customer preventive maintenance (PM) section includes procedures to inspect for proper operation and cleaning of components. Owner Preventive Maintenance Procedures are written for gas ovens. They can also be used for electric ovens by omitting the steps that refer to components found only on gas ovens. Customer PMs should be conducted bi-monthly per OSHA Bakery Oven Inspection Standard 29 CFR 1910.263(l)(9)(ii). A convenient PM Checklist is provided at the end of this section.

NOTE: This PM procedure does not discuss repair or replacement of components. Upon completion of the PM procedure, you will need to contact a Hobart Bakery System service agency for any needed repairs.

Tools Used For Inspection Procedure

- Standard set of hand tools
- Vacuum cleaner - shop vac

PREVENTIVE MAINTENANCE PROCEDURES

WARNING: DISCONNECT THE ELECTRICAL POWER TO THE OVEN AND FOLLOW LOCKOUT / TAGOUT PROCEDURES.

WARNING: SHUT OFF THE GAS BEFORE SERVICING THE UNIT.

WARNING: CERTAIN PROCEDURES IN THIS SECTION REQUIRE ELECTRICAL TEST OR MEASUREMENTS WHILE POWER IS APPLIED TO THE MACHINE. EXERCISE EXTREME CAUTION AT ALL TIMES. IF TEST POINTS ARE NOT EASILY ACCESSIBLE, DISCONNECT POWER AND FOLLOW LOCKOUT / TAGOUT PROCEDURES, ATTACH TEST EQUIPMENT AND REAPPLY POWER TO TEST.

Inspect Oven Lamps

1. Lamps should be on when oven is powered.
2. If not, replace lamps.
 - A. Unscrew lamp cover (Fig. 1) to disengage from lamp sockets. Remove lamp from socket.
3. Reverse procedure to install new lamps.

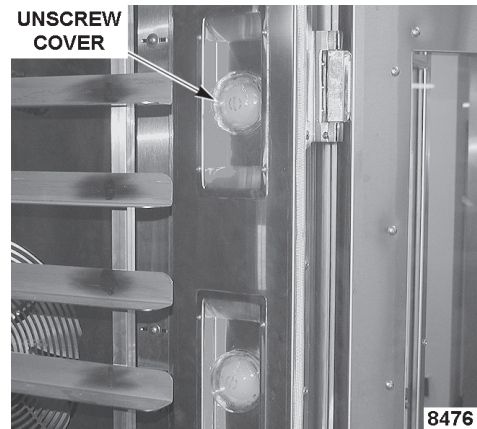


Fig. 1

Clean and Vacuum Components and Burner Area

1. Clean the burner chamber (Fig. 2) area of dust and/or lint accumulation.
 - A. Remove screw securing control panel door and swing door open to access burner chamber area.
 - B. Vacuum the burner chamber area of dust and/or lint accumulation.

NOTE: Individual burners may be inspected for clogs or debris without removing individual burners.

2. Check and clean all air passageways.
 - A. Clean all burner chamber air passageways of dust and/or lint accumulation.
3. Clean convection panel grill.
 - A. Clean convection panel grill (Fig. 3) of dust and/or lint accumulation.
4. Clean draft inducer housing grill guard (Fig. 4).
 - A. Access draft inducer housing on top of oven and clean grill cover of dust and/or lint accumulation.



Fig. 2



Fig. 3

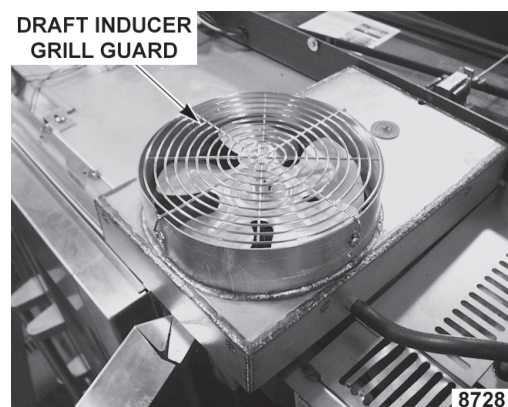


Fig. 4

Inspect Rack Rotation Assemblies

NOTE: Before performing rack inspection, observe condition of rack rotation belt.

1. Check rack rotation belt.
 - A. Gain access to the top of oven and loosen the screws securing rack rotation assembly cover (Fig. 5).
 - B. Lift cover from top of oven.
 - C. Observe condition of the rack rotation belt. If belt is worn or damaged, contact your local Hobart Bakery Systems service office.
 - D. Reverse procedure to install.
2. Check rack assembly for proper operation.
 - A. Put oven into operation with customer's typical bake product load weight on rack. If rack does not stop in the proper rack load/unload position, contact your local Hobart Bakery Systems service office.

NOTE: Some under or over travel of rack positioning should be expected depending on product load.

Inspect Door Components

1. Check and or adjust door gaskets.
 - A. While operating oven, if air (or steam) blows out from the top, sides or underneath the doors, door gasket will need to be adjusted or replaced.
 - B. If gasket needs replaced, contact your local Hobart Bakery Systems service office.
2. Check door switch operation.
 - A. Turn oven on and set a normal bake temperature.
 - B. With the oven doors closed, press START button and observe rack rotation. If no rotation, contact your local Hobart Bakery Systems service office.

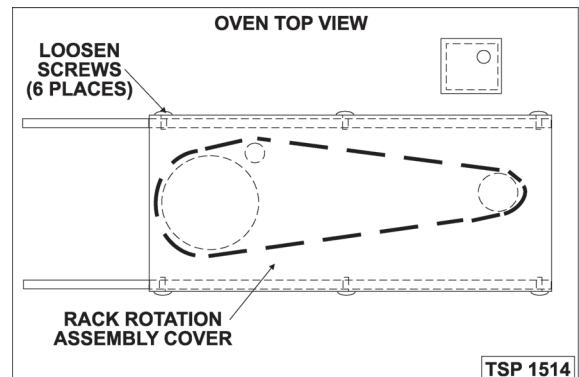


Fig. 5

Inspect Air Louvers

1. Check air louvers (shutters) (Fig. 6) inside oven and tighten any loose screws.
2. Check oven interior, and tighten or replace loose or missing panel screws.

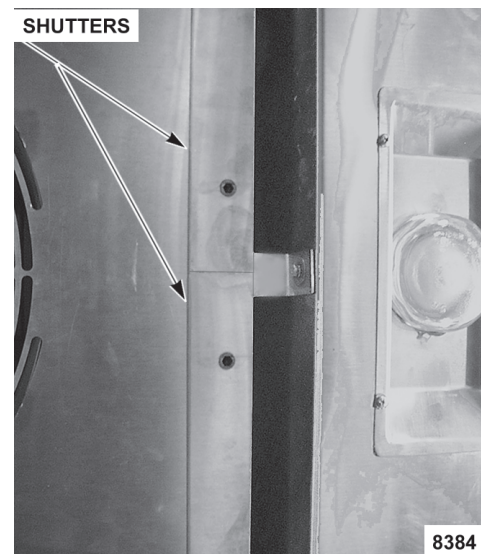


Fig. 6

Inspect Cavity Vent

1. Check cavity vent for proper operation.
 - A. Push VENT button (Fig. 7) on control panel to open vent and push again to close vent.
 - B. Visually check that vent opens (Fig. 8) and closes (Fig. 9) when button is pushed. If vent does not operate, contact your local Hobart Bakery Systems service office.



Fig. 7

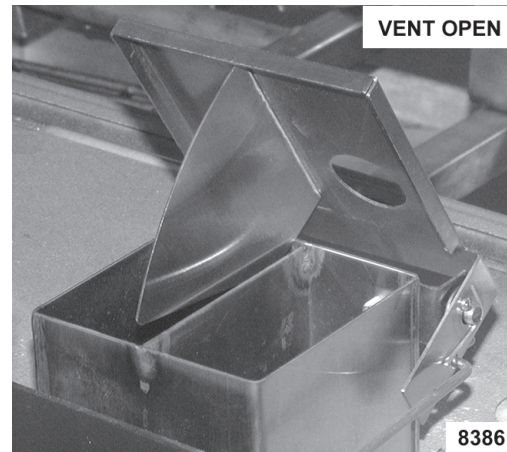


Fig. 8

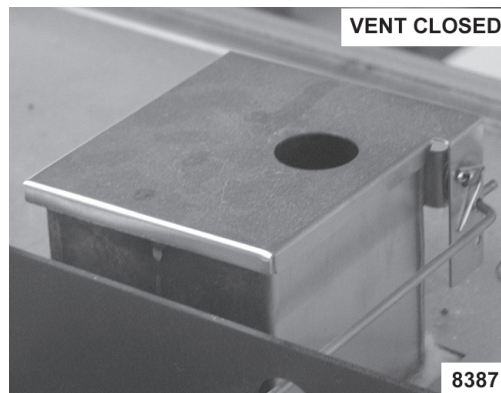


Fig. 9

Visually Inspect Electrical Connections

1. Remove screw securing control panel door and swing door open to access burner compartment area.
2. Inspect all wiring connections for discoloration. If discoloration is visible, contact your local Hobart Bakery Systems service office.

Verify Ignition Module Safety Lockout Functions

1. Verify ignition module safety lockout functions.
 - A. Turn the oven on and close the doors.
 - B. Turn off gas supply to oven.
 - C. Set the oven control to call for heat, make sure convection fan is running.
 - D. Remove screw securing control panel door and swing door open to access burner compartment area.
 - E. Observe LED on ignition module. After trying to light the burner, the module should lockout (See following chart.)
 - F. Turn gas supply back on to oven.
 - G. Set the oven control to call for heat and make sure convection fan is running and the burner has established a flame.
 - H. Turn the gas supply off to the oven.
 - I. Observe LED on ignition module (Fig. 10). The module should go into lockout. (See following chart.)

LED DIAGNOSTIC INDICATOR CODES	
LED	CODE
LED "OFF"	No Fault
LED "ON"	Control Fault
'1' FLASH	Air Flow Fault
'2' FLASH	Flame Fault No Call For Heat
'3' FLASH	Ignition Module Lockout

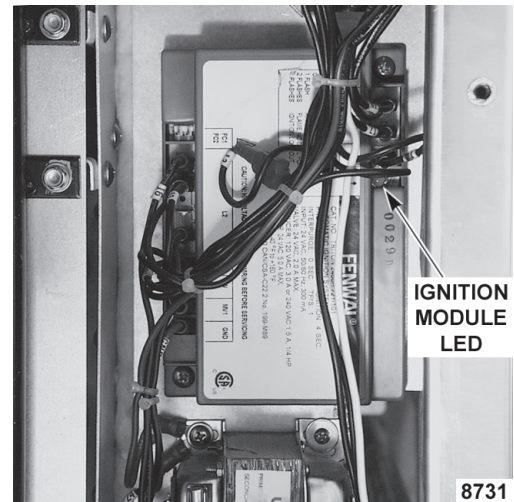


Fig. 10

- J. If the results have been obtained, proceed to next preventive maintenance procedure.
- K. If the results have not been obtained, contact your local Hobart Bakery Systems service office.

2. Verify operation of draft inducer pressure switch.
 - A. Turn incoming power off to oven.
 - B. Remove screw securing control panel door and swing door open to access burner compartment area.
 - C. Loosen hose clamp (Fig. 11) and remove vacuum tube from the vacuum switch.

NOTE: Some ovens may have rectangular-shaped vacuum switches.

- D. Reconnect incoming power to oven and turn oven on.
- E. Set oven to heat and press START.
- F. The burners should not come on at this time.
- G. If the burners do not come on, proceed to next preventive maintenance procedure.
- H. If the burners do come on, contact your local Hobart Bakery Systems service office.
- I. Reverse the procedure to install.

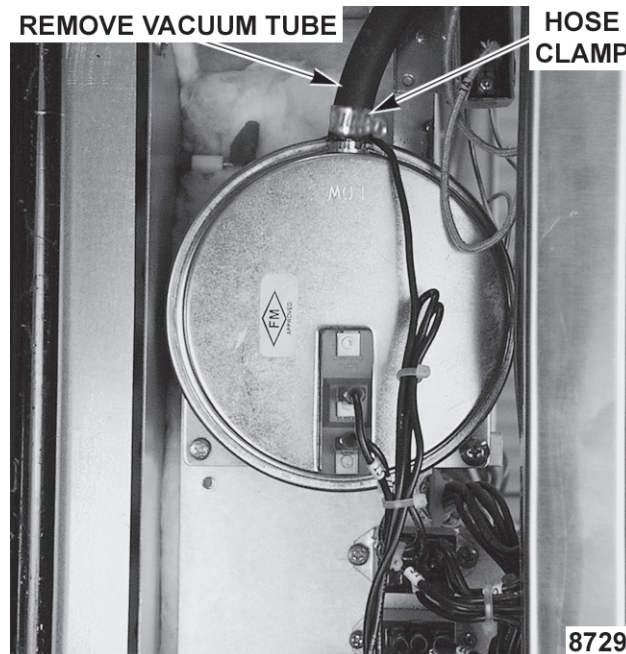


Fig. 11

NOTE: Use normally open, common terminals and low vacuum port for the vacuum switch setup.

3. Verify operation of draft inducer (stack fan) pressure switch.
 - A. Set oven for heat.
 - B. Disconnect tubing from exhaust vent collar. Burner should go out.
 - C. Reconnect tubing and burner should establish a flame.
 - D. If the results have been obtained, proceed to next preventive maintenance procedure.
 - E. If the results have not been obtained, contact your local Hobart Bakery Systems service office.

Verify Operation of Steam

1. Check steam system for proper operation.
 - A. Turn the water supply on.
 - B. Turn the oven on and set to normal bake temperature.
 - C. Allow to cycle three times to stabilize temperature.
 - D. Set control to call for steam.
 - E. Observe operation. If steam is not observed, contact your local Hobart Bakery Systems service office.

After completion of the Owner PM Procedures, you will need to contact a qualified servicer for any needed repairs.

Keep a copy of the Owner Preventive Maintenance Checklist for your records.

COPY AS NEEDED

MODEL/SERIAL NUMBERS

**RECOMMENDED OWNER
PREVENTIVE MAINTENANCE CHECKLIST**

BAKERY RACK OVENS - GAS

**CHECK FOR PROPER OPERATION OR CLEAN.
CALL FOR SERVICE AS NECESSARY**

Inspect oven lamps																				
Clean and vacuum components and burner areas																				
Inspect rack lift and rotation assemblies																				
Inspect door components																				
Inspect air louvers																				
Inspect cavity vent																				
Visually inspect electrical connections																				
Verify ignition module safety lockout functions																				
Verify operation of steam																				

√ =PROCESS COMPLETED

PM Frequency: Bi-monthly
Type of Gas Natural Gas _____ Propane _____

Location: _____ Store No. _____

Inspector: _____ Date Completed: _____

Service Notified for Necessary Repairs: _____
(Date)

Comments:

(Inspector Signature)

