



GARLAND™

**OPERATION INSTRUCTIONS
FOR
MASTER 470/475
PROGRAMMABLE CONTROLS**

PLEASE READ ALL SECTIONS OF THIS MANUAL AND RETAIN FOR FUTURE REFERENCE.

THIS PRODUCT HAS BEEN CERTIFIED AS COMMERCIAL COOKING EQUIPMENT AND MUST BE INSTALLED BY PROFESSIONAL PERSONNEL AS SPECIFIED.

THE FOLLOWING INSTRUCTIONS SHOULD BE READ CAREFULLY AS THE MANUFACTURER CANNOT BE HELD RESPONSIBLE FOR ANY DAMAGE TO PROPERTY OR PERSONS CAUSED BY INCORRECT INSTALLATION OR OPERATION OF THE OVEN.

INITIAL HEATING OF OVEN MAY GENERATE SMOKE OR FUMES AND MUST BE DONE IN A WELL VENTILATED AREA. OVER-EXPOSURE TO SMOKE MAY CAUSE NAUSEA OR DIZZINESS.

Continuous product improvement is a Garland policy, therefore design and specifications are subject to change without notice.

In the event that you have questions about the installation, use, care or service of this product, please contact our customer service department at:

GARLAND COMMERCIAL INDUSTRIES

185 East South Street
Freeland, Pennsylvania 18224
Phone: (570) 636-1000
Fax: (570) 636-3903

GARLAND COMMERCIAL RANGES, LTD.

1177 Kamato Road, Mississauga, Ontario L4W
1X4 CANADA
Phone: 905-624-0260
Fax: 905-624-5669

WELBILT UK LTD.

Swallowfield Way, Hayes, Middlesex UB3 1DQ
ENGLAND
Telephone: 081-561-0433
Fax: 081-848-0041

Table of Contents

Manual cooking (Master 475 and Master 470):.....	3
Manual cooking using Cook-N-Hold (Master 475 and Master 470):.....	3
Programming Product Keys (Master 470):.....	3
Programming Product Keys (Master 475):.....	4
Cooking using the product keys. (Master 475 and Master 470):.....	5
Verifying hold time (Master 475 and Master 470):.....	5
Selecting Fahrenheit or Celsius (Master 475 and Master 470):.....	5
Cooking with the Shelf Timer (Master 475 and Master 470):	5

Manual cooking (Master 475 and Master 470):

1. Press SET key - TEMP LED will light
2. Set temperature using the dial (factory preset at 350°F)
3. Press SET key - FAN LED will light
4. Select fan mode using one of the three (3) fan keys (HIGH, LOW, PULSE) - the selected fan LED will light (factory preset at High)
5. Press SET key - TIME LED will light
6. Set cook time using the dial (factory preset at 30:00)
7. Press SET key - ready to cook
8. Press START/CANCEL to begin manual cooking

Manual cooking using Cook-N-Hold (Master 475 and Master 470):

1. Press the COOK/HOLD key. That key's LED will light.
2. Press SET key - TEMP LED will light
3. Set cook temperature using the dial (factory preset at 350°F)
4. Press SET key - HOLD LED will light
5. Set hold temperature using the dial (factory preset at 200°F)
6. Press SET key - FAN LED will light
7. Select fan mode using one of the three (3) fan keys (HIGH, LOW, PULSE) - the selected fan LED will light (factory preset at High)
8. Press SET key - TIME LED will light
9. Set cook time using the dial (factory preset at 30:00)
10. Press SET key - ready to cook
11. Press START/CANCEL to begin manual cooking

Programming Product Keys (Master 470):

NOTE: The Master 470 controller will only accept a single cooking profile per product key (one cooking time, one cook temperature, one fan speed, and one choice for straight or flex time).

Press and hold PROG key for three (3) seconds - all the product key LEDs will light.

1. CODE will be displayed. The controller is asking for the access code. Press 4-2-7-5 and the START/CANCEL key. PROD will be displayed indicating you have gained access to Product Programming.
2. Press the product key (1 - 9) into which you want to store a cooking program. SHLF will be displayed. The control is asking if you want to program the key as a shelf timer or a cooking profile. Select your answer by pressing the START/CANCEL key. When the correct answer is displayed, press the SET key. The TIME LED will light. 30:00 will be displayed
3. Set the cook time using dial.

Press the SET key - PRE will be displayed, followed by :00. The controller is asking if you would like a reminder alarm (pre-alarm) to sound during the cooking process. (factory preset is :00)

4. If a pre-alarm signal is desired - dial in the time that the alarm is to sound. (Ex. If the product is to be turned halfway through the 60 minute cooking cycle, set the pre-alarm to 30 minutes). If pre-alarm is not desired verify that ":00" is displayed.

Press the SET key - TEMP Led will light, and the display will show the cooking temperature. (factory preset at 350°F)

5. Set the cooking temperature using the dial.
Press the SET key. - FAN will be displayed and the FAN LED will light.
6. Set the fan speed desired using the individual fan keys (HIGH, LOW or PULSE) (factory preset at High).
Press the SET key. - FL or St will be displayed (for flex time or straight time) (factory preset for flex time).

7. Select flex or straight time using the START/CANCEL key.

Press the SET key when complete.

8. Programming for that product key is complete.

Programming Product Keys (Master 475):

NOTE: Cooking time(s) is the element of the program that tells the controller that other information (temperature, fan speed, etc.) will be inputted into the controller. The first step is to enter all the time periods required, followed by the addition of the other cooking elements.

1. Press and hold PROG key for three (3) seconds the entire product key LEDs will light.
2. CODE will be displayed. The controller is asking for the access code. Press 4-2-7-5 and the START/CANCEL key. PROD will be displayed indicating you have gained access to Product Programming.
3. Press the product key (1 - 9) into which you want to store a cooking program. SHLF will be displayed. The control is asking if you want to program the key as a shelf timer or with a cooking profile. Select your answer by pressing the START/CANCEL key. When the correct answer is displayed, press the SET key. The TIME LED will light. 30:00 will be displayed.

4. Set first cook time using dial.
If more than one cooking profile is desired:

Press the product key where the program is to be stored (1 - 9) - PR-2 will be displayed

Get the second cook time using the dial (factory presets for PR-2 through PR-5 are :00)

Press the same product key (1 - 9) again - PR-3 will be displayed

Repeat this process for all profiles. When the last profile time has been entered, press the SET key, OR If less than five (5) profiles are desired press the SET key after the last required profile - PRE will be displayed, followed by :00).

The controller is asking if you would like a reminder alarm (pre-alarm) to sound during the cooking process.. (factory preset is :00)

5. If a pre-alarm signal is desired - dial in the time that the alarm is to sound. (Ex. If the product is to be turned halfway through the 60 minute cooking cycle, set the pre-alarm to 30 minutes). If pre-alarm is not desired verify that ":00" is displayed. Press the SET key - TEMP Led will light, and the display will show the first profile cooking temperature. (factory preset at 350°F)

6. Set the first cooking temperature using the dial.

Press the product key - PR-2 will be displayed followed by the second temperature.

Set the second cooking time using the dial.

Repeat as you did for cooking time, for all the profiles desired.

NOTE: The controller will only accept cooking temperatures for the number of profiles for which a cooking time has been set. If the product key is pressed after the last programmed profile, the first temperature will be displayed.

Press SET after the last cooking temperatures has been entered, HOLD will be displayed.

7. Use the START/CANCEL key to select yes or no. Press the SET key.

8. If yes was selected, the HOLD LED will light. Enter the hold temperature using the dial. (factory preset at 200°F) Press the SET key. FAN will be displayed and the FAN LED will light.

Set the fan speed desired for the first cooking profile using the individual fan keys (HIGH, LOW or PULSE) (factory preset at High), press the product key and set the fan speed for the second cooking profile. Continue until all the profiles have been assigned a fan speed. Press the SET key when complete. As with the temperature, if the product key is pressed after the last programmed profile, the first fan speed will be displayed.

9. FL or St will be displayed (for flex time or straight time) (factory preset for flex time). Select flex or straight time using the START/CANCEL key for the first profile. Press the product key and select straight time or flex time for the second profile. Continue until all the profiles have been assigned straight or flex time. Press the SET key when complete. If the product key is pressed after the last programmed profile, the first profile will be displayed.
10. Programming for that product key is complete.

**Cooking using the product keys.
(Master 475 and Master 470):**

1. On initial start-up, press the product key for the menu item to be cooked. Wait until LOAD is displayed.
2. Load the oven
3. Press the product key for the loaded menu item.
4. Press the START/CANCEL key.
5. To cancel the alarm or the holding operation, press the START/CANCEL key followed by the product key.

Verifying hold time (Master 475 and Master 470):

While a product is being held, press and hold the product key. The actual hold time will be displayed.

**Selecting Fahrenheit or Celsius
(Master 475 and Master 470):**

Press PROG and ACTUAL TEMP keys at the same time, F or C will be displayed. (Factory preset for F)

Press the START/CANCEL key to switch between F and C.

When the desired setting is displayed press the PROG and ACTUAL TEMP keys at the same time.

**Cooking with the Shelf Timer
(Master 475 and Master 470):**

The shelf timer option is used to independently time each of the up to six different shelves or racks within the oven.

NOTE: To use the shelf timer option, at least one product key must be programmed with a cooking profile (temperature, time, fan speed, flex or straight time). The program key must be limited to a single cooking profile to be used with the shelf timing option. If more than one product key is to be used, all product keys to be used must feature the same cooking temperature and fan speed. Flex or straight time and cooking time can be different. The Cook-N-Hold option can not be used with the shelf timer operation.

Pressing the desired product key will bring the oven to the desired cooking temperature, once the oven has reached the proper cooking temperature as indicated by LOAD in the display.

1. Press the product key containing the desired cooking profile (1 - 9),
2. Press the shelf key for the shelf location to be timed (1 - 6). NOTE: product keys and shelf keys are the same keys.
3. Press the START/CANCEL key to begin the cooking/timing process.
4. When the cooking/timing process is complete for each shelf, an audible "done" signal will sound and the display will indicate which shelf is finished. Example: SH-1
5. To turn off the alarm press the product key with the flashing LED.

Example:

Two product profiles contain the same cooking temperature, fan speed and are both programmed for flex time - keys 1 and 6.

Two trays of product are going to be cooked in the oven at the same time. The first tray will use product key 1 and will be placed in rack position 2. The second tray will use product key 6 and will be placed in rack position 4. Once the oven display indicates LOAD:

1. Load food product into oven on shelf 2.
2. Press product key 1, then shelf key 2.
3. Press the START/CANCEL key to start cooking on shelf 2.
4. Load food product into oven on shelf 4
5. Press product key 6, then shelf key 4.
6. Press the START/CANCEL key to start cooking on shelf 4.

7. When product on shelf 2 is finished cooking, an audible alarm will sound and the display will flash DONE, then SH-2, and the product key 1 LED will be flashing.
8. To turn off the alarm, press product key 1.
9. When product on shelf 4 is finished cooking, an audible alarm will sound and the display will flash DONE, then SH-4, and the product key 6 LED will be flashing.
10. To turn off the alarm, press product key 6.

NOTES

 **GARLAND™**