

**DFG-100 & DFG-200
GAS CONVECTION OVENS
INSTALLATION - OPERATION - MAINTENANCE**



BLODGETT OVEN COMPANY

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PN 90055 Rev AF (1/14)

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Your Service Agency's Address:

Model

Serial number

Oven installed by

Installation checked by

IMPORTANT

WARNING: Improper installation, adjustment, alternation, service or maintenance can cause property damage, injury or death. Read the installation, operation and maintenance instructions thoroughly before installing or servicing this equipment.

INSTRUCTIONS TO BE FOLLOWED IN THE EVENT THE USER SMELLS GAS MUST BE POSTED IN A PROMINENT LOCATION. This information may be obtained by contacting your local gas supplier.

FOR YOUR SAFETY

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

The information contained in this manual is important for the proper installation, use, and maintenance of this oven. Adherence to these procedures and instructions will result in satisfactory baking results and long, trouble free service. Please read this manual carefully and retain it for future reference.

ERRORS: Descriptive, typographic or pictorial errors are subject to correction. Specifications are subject to change without notice.

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Installation

Oven Description and Specifications

Cooking in a convection oven differs from cooking in a conventional deck or range oven since heated air is constantly recirculated over the product by a fan in an enclosed chamber. The moving air continually strips away the layer of cool air surrounding the product, quickly allowing the heat to penetrate. The result is a high quality product, cooked at a lower temperature in a shorter amount of time.

Blodgett convection ovens represent the latest advancement in energy efficiency, reliability, and ease of operation. Heat normally lost, is recirculated within the cooking chamber before being vented from the oven: resulting in substantial reductions in energy consumption and enhanced oven performance.

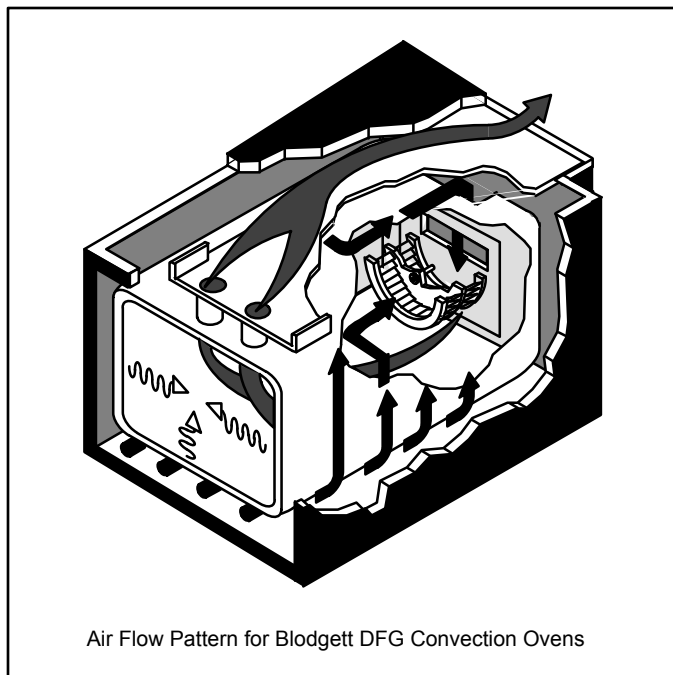


Figure 1

GAS RATINGS - DFG-100-3, DFG-100LH, DFG-200 & DFG-200LH				
	Natural Gas		Propane	
	US Units	SI Units	US Units	SI Units
US, Canada and General Export				
Heating Value	1000 BTU/cu.ft.	37.3 MJ/m3	2550 BTU/cu. ft.	95.0 MJ/m3
Specific Gravity (air=1.0)	0.63	0.63	1.53	1.53
Oven Input				
DFG-100-3 / DFG-100LH	55,000 BTU/hr	16.2 kW	55,000 BTU/hr	16.2 kW
DFG-200 / DFG-200LH	60,000 BTU/hr	17.6 kW	60,000 BTU/hr	17.6 kW
Main Burner Orifice Size				
DFG-100-3 / DFG-100LH	40 MTD*	2.5 mm	53 MTD*	1.5 mm
DFG-200 / DFG-200LH	38 MTD*	2.6 mm	1.55 mm	1.55 mm
DFG-100-3 for Australia				
Oven Input	—	58 MJ/h	—	58 MJ/h
Main Burner Orifice Size	38 MTD*	2.6 mm	1/16" dia.	1.6 mm
NOTE: * - Multiple Twist Drill				

Delivery and Location

DELIVERY AND INSPECTION

All Blodgett ovens are shipped in containers to prevent damage. Upon delivery of your new oven:

- Inspect the shipping container for external damage. Any evidence of damage should be noted on the delivery receipt which must be signed by the driver.
- Uncrate the oven and check for internal damage. Carriers will accept claims for concealed damage if notified within fifteen days of delivery and the shipping container is retained for inspection.

The Blodgett Oven Company cannot assume responsibility for loss or damage suffered in transit. The carrier assumed full responsibility for delivery in good order when the shipment was accepted. We are, however, prepared to assist you if filing a claim is necessary.

OVEN LOCATION

The well planned and proper placement of your oven will result in long term operator convenience and satisfactory performance.

The following clearances must be maintained between the oven and any combustible or non-combustible construction.

DFG100

- Oven body right side - 2" (5cm)
- Oven body left side - 2" (5cm)
- Oven body back - 0" (0cm)
- Oven body bottom - 6" (15cm)

DFG200

- Oven body right side - 6" (15cm)
- Oven body left side - 6" (15cm)
- Oven body back - 6" (15cm)
- Oven body bottom - 6" (15cm)

The following clearances must be available for servicing.

- Oven body sides - 12" (30cm)
- Oven body back - 12" (30cm)

NOTE: On gas models, routine servicing can usually be accomplished within the limited movement provided by the gas hose restraint. If the oven needs to be moved further from the wall, the gas must first be turned off and disconnected from the oven before removing the restraint. Reconnect the restraint after the oven has been returned to its normal position.

It is essential that an adequate air supply to the oven be maintained to provide a sufficient flow of combustion and ventilation air.

- Place the oven in an area that is free of drafts.
- Keep the oven area free and clear of all combustibles such as paper, cardboard, and flammable liquids and solvents.
- NSF requires 6" of clearance on the bottom and sides of the unit for cleaning. Do not place the oven on a curb base or seal to a wall.
- The location must provide adequate clearance for the air opening into the combustion chamber.

Before making any utility connections to this oven, check the rating plate to be sure the oven specifications are compatible with the gas and electrical services supplied for the oven.

1. Pull out control panel. The rating plate attached to the inside of the control compartment.



Installation

Oven Assembly

NSF BOLTS

These bolts are required by NSF to block any exposed hole on the back of an oven. This includes:

- any unit, single or stacked, without a back panel.
- any holes in stacked units not used for mounting stacking brackets.

1. Locate the 5/16" bolts that were shipped with the oven.
2. Install the bolts as shown.

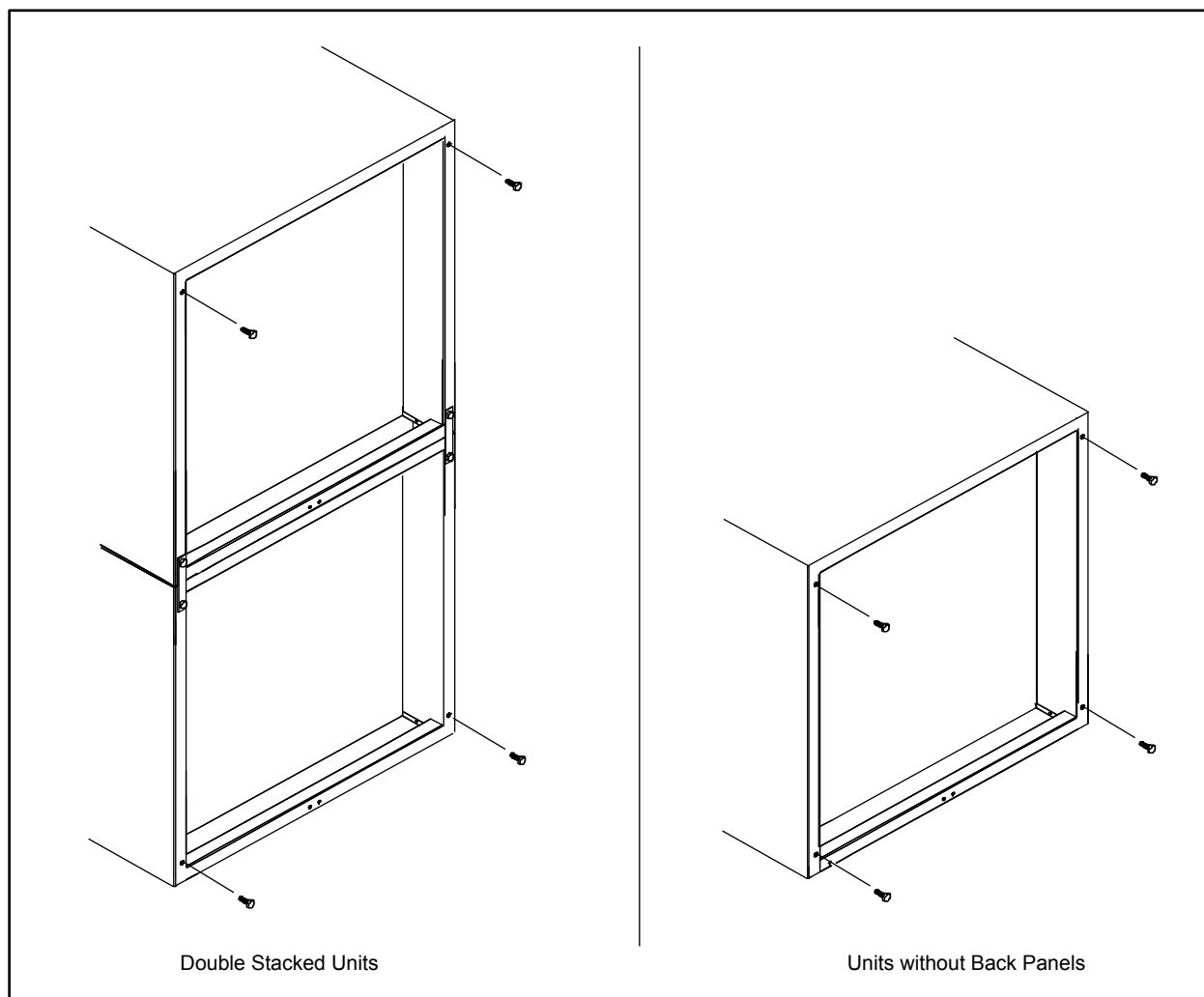


Figure 2



Oven Assembly

LEG ATTACHMENT

1. Push the oven onto a lift with the bottom of the oven down.
2. Align the threaded stud in each leg with the nut located inside each bottom corner of the oven frame. Turn the legs clockwise and tighten to the nearest full turn.
3. Align the two leg plate holes in each leg with those in the oven bottom. Secure each leg using two 1/2" bolts.

NOTE: If using casters see CASTER ASSEMBLY before proceeding.

4. Level the oven by screwing the adjustable leg feet in or out as necessary.

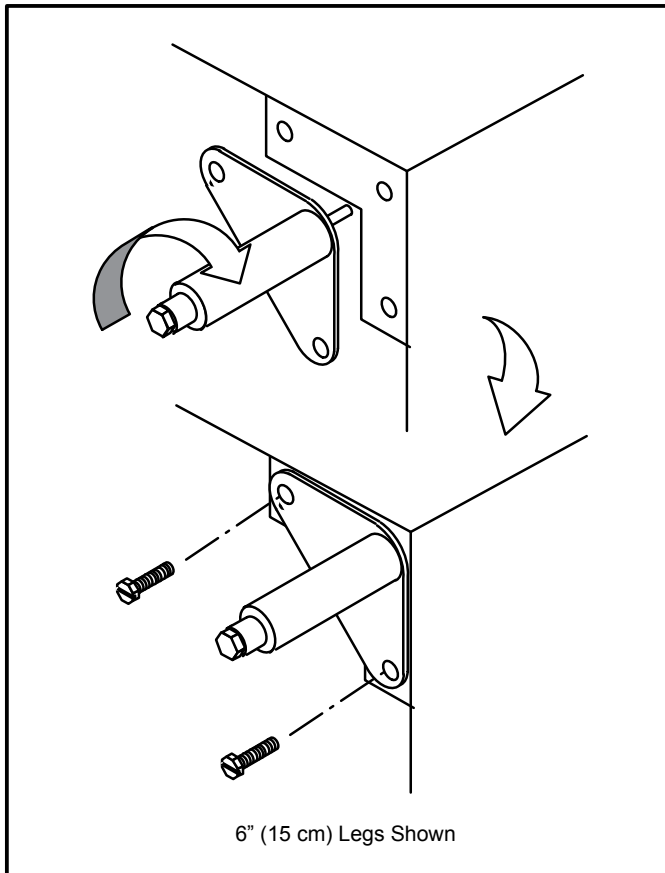


Figure 3

CASTER ASSEMBLY

NOTE: Install the locking casters on the front of the oven. Install the non-locking casters on the back of the oven.

NOTE: Use a gas hose restraint on all units with casters.

Casters for Single and Double Stacked Ovens:

1. Attach the legs as described.
2. Pry the adjustable feet out of the legs.
3. Insert one caster into each leg as shown. Tighten the lock nuts to secure the casters.

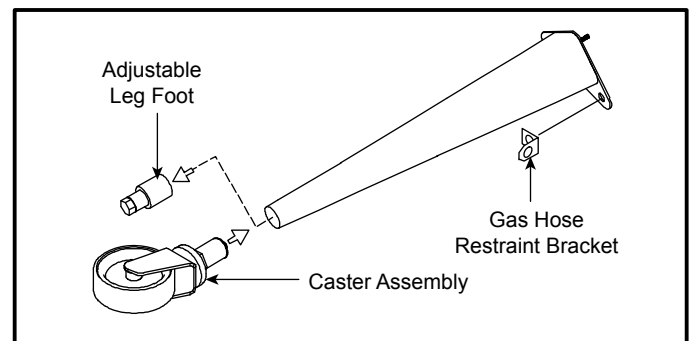


Figure 4

Low Profile Casters for Double Stacked Ovens:

1. Align the three holes in each caster assembly plate with those in the oven bottom. Secure each caster using three 1/2" bolts.

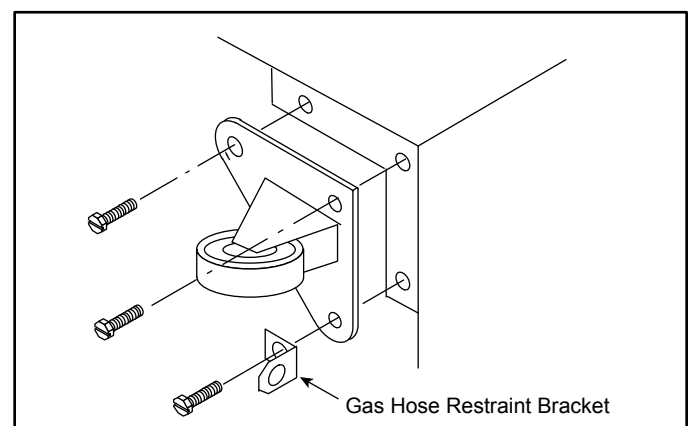


Figure 5



Installation

Oven Assembly

DOUBLE SECTION ASSEMBLY

NOTE: Old style ovens refer to units with painted exposed rear angle. New style ovens refer to units with rear angle iron enclosed in steel.

The following instructions apply to stacking two new style ovens.

1. Secure the short legs to the bottom sections as described.
2. Place the upper section in position on top of the lower oven.
3. Attach the stacking brackets using the remaining 5/16" bolts shipped with the ovens.
4. Attach the flue connector.

The following instructions apply to stacking a new style oven on an old style oven.

1. Secure the short legs to the bottom sections as described.
2. Place the upper section in position on top of the lower oven.

3. Attach the stacking brackets using the remaining 5/16" bolts shipped with the ovens.
4. Drill a clearance hole for a 5/16" bolt in the angle iron of the old style oven. Use the holes in the stacking brackets as a pilot.
5. Attach the stacking brackets to the old style oven with the 5/16" bolts and nuts provided in the kit.
6. Attach the flue connector.



WARNING:

When stacking ovens be sure to remove the single oven flue boxes prior to attaching three-piece connector.

OVEN LEVELING

After assembly, the oven should be leveled and moved to the operating location.

1. The oven can be leveled by adjusting the feet or casters located on the bottom of each leg.

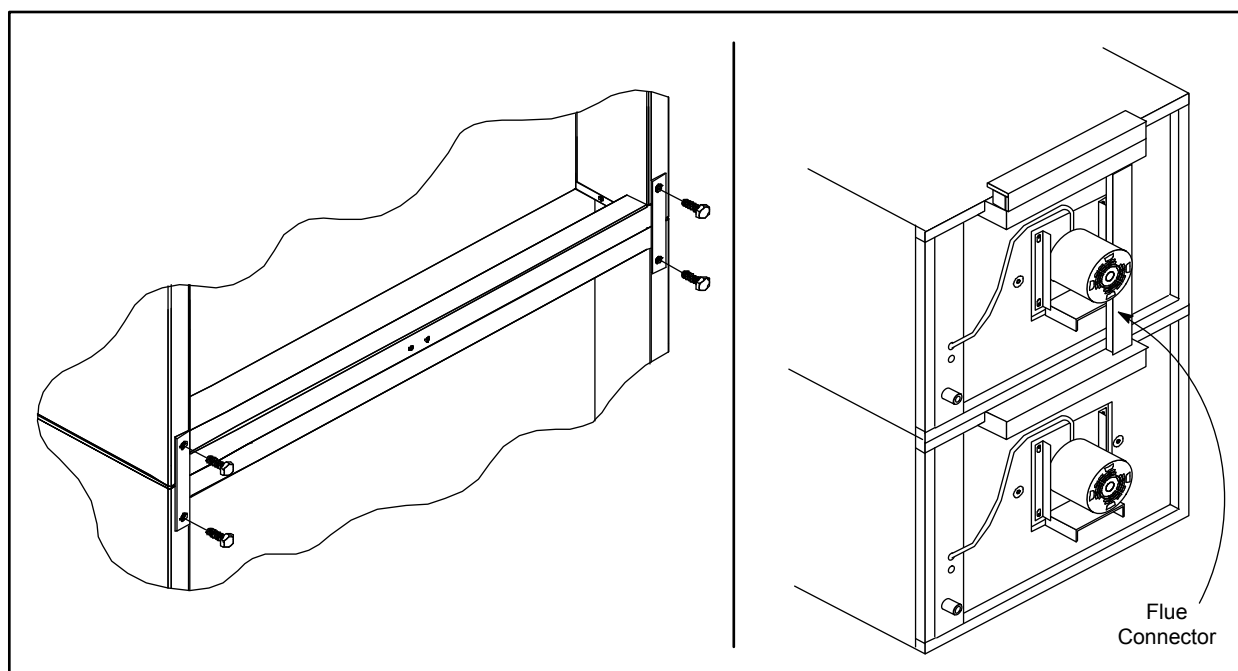


Figure 6



On gas models the installation of a proper ventilation system cannot be over emphasized. This system removes unwanted vapors and products of combustion from the operating area.

This oven may be vented using either:

- A mechanically driven, canopy type, exhaust hood, or
- A direct flue arrangement.

U.S. and Canadian installations

Refer to your local ventilation codes. In the absence of local codes, refer to the National ventilation code titled, "Standard for the Installation of Equipment for the Removal of Smoke and Grease Laden Vapors from Commercial Cooking Equipment", NFPA-96-Latest Edition.

Australia and general export installations

Installation must conform with Local and National installation standards. Local installation codes and/or requirements may vary. If you have any questions regarding the proper installation and/or operation of your Blodgett oven, please contact your local distributor. If you do not have a local distributor, please call the Blodgett Oven Company at 0011-802-658-6600.



WARNING:

Failure to properly vent the oven can be hazardous to the health of the operator and may result in operational problems, unsatisfactory baking and possible damage to the equipment.

Damage sustained as a direct result of improper ventilation will not be covered by the manufacturer's warranty.

CANOPY TYPE EXHAUST HOOD

A mechanically driven, canopy type exhaust hood is the preferred method of ventilation.

The hood should be sized to completely cover the equipment plus an overhang of at least 6" (15 cm) on all sides not adjacent to a wall. The distance from the floor to the lower edge of the hood should not exceed 7' (2.1m).

The total makeup and exhaust air requirements for hood capacity should be approximately 30 CFM (.85 m3) for each oven section.

Installing the canopy hood draft diverter

Ovens ordered for hood venting are supplied with a draft diverter. Install the draft diverter as follows:

1. Place the diverter over the flue connector with the open area facing the front of the oven.
2. Secure both ends with the sheet metal screws provided.

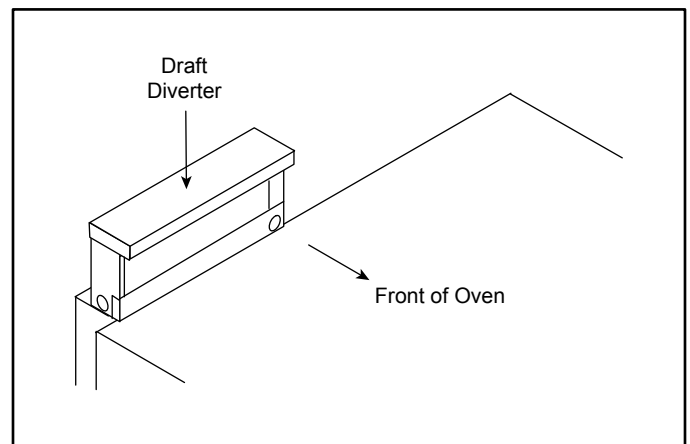


Figure 7



Installation

Ventilation

DIRECT FLUE ARRANGEMENT

When the installation of a mechanically driven exhaust hood is impractical the oven may be vented by a direct flue arrangement.



WARNING!!

It is essential that the direct flue be installed as follows. Incorrect installation will result in unsatisfactory baking and oven damage.

The flue must be class B or better. The height of the flue should rise 6-8 ft (2-2.5 m) above the roof of the building or any proximate structure. Never direct vent the oven into a hood. The flue should be capped with a UL Listed type vent cap to isolate the unit from external environmental conditions.

The direct vent cannot replace air consumed and vented by the oven. Provisions must be made to supply the room with sufficient make-up air. Total make-up air requirements for each oven section should be approximately 30 CFM (.85 m³) per section. To increase the supply air entering the room, a ventilation expert should be consulted.

FLUE DIAMETER		
Oven	Single	Double
DFG-100	6" (15cm)	6" (15cm)
DFG-200	6" (15cm)	8" (20cm)

Installing the draft hood

Ovens ordered for direct venting are supplied with a draft hood. Install the draft hood as follows:

1. Place the draft hood over the flue connector.
2. Secure both ends with the sheet metal screws provided.

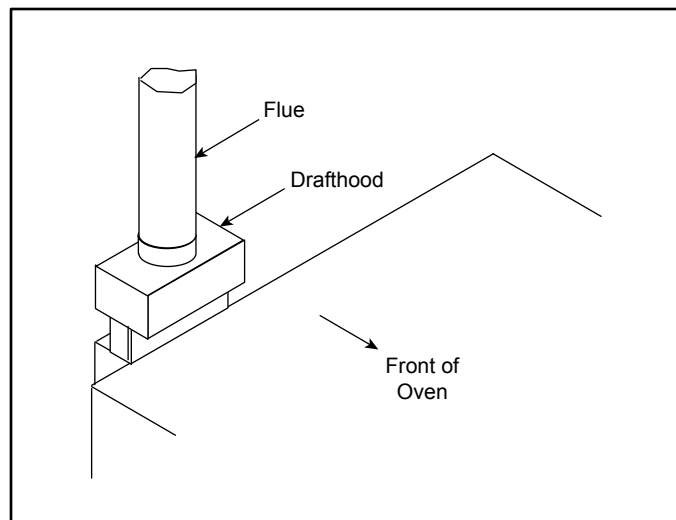


Figure 8



Utility Connections - Standards and Codes

THE INSTALLATION INSTRUCTIONS CONTAINED HEREIN ARE FOR THE USE OF QUALIFIED INSTALLATION AND SERVICE PERSONNEL ONLY. INSTALLATION OR SERVICE BY OTHER THAN QUALIFIED PERSONNEL MAY RESULT IN DAMAGE TO THE OVEN AND/OR INJURY TO THE OPERATOR.

Qualified installation personnel are individuals, a firm, a corporation, or a company which either in person or through a representative are engaged in, and responsible for:

- the installation or replacement of gas piping and the connection, installation, repair or servicing of equipment.
- the installation of electrical wiring from the electric meter, main control box or service outlet to the electric appliance.

Qualified installation personnel must be experienced in such work, familiar with all precautions required, and have complied with all requirements of state or local authorities having jurisdiction.

U.S. and Canadian installations

Installation must conform with local codes, or in the absence of local codes, with the National Fuel Gas Code, NFPA54/ANSI Z223.1-Latest Edition, the Natural Gas Installation Code CAN/CGA-B149.1 or the Propane Installation Code, CAN/CGA-B149.2 as applicable.

Installation must conform with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70-Latest Edition and/or Canadian National Electric Code C22.2 as applicable.

Australia and general export installations

Installation must conform with Local and National installation standards. Local installation codes and/or requirements may vary. If you have any questions regarding the proper installation and/or operation of your Blodgett oven, please contact your local distributor. If you do not have a local distributor, please call the Blodgett Oven Company at 0011-802-658-6600.





Installation

Gas Connection

GAS PIPING

A properly sized gas supply system is essential for maximum oven performance. Piping should be sized to provide a supply of gas sufficient to meet the maximum demand of all appliances on the line without loss of pressure at the equipment.

Example:

NOTE: BTU values in the following example are for natural gas.

You purchase a DFG-100 to add to your existing cook line.

1. Add the BTU rating of your current appliances.

Pitco Fryer	120,000 BTU
6 Burner Range	60,000 BTU
Deck Oven	50,000 BTU
Total	230,000 BTU

2. Add the BTU rating of the new oven to the total.

Previous Total	230,000 BTU
DFG-100	55,000 BTU
New Total	285,000 BTU

3. Measure the distance from the gas meter to the cook line. This is the pipe length. Let's say the pipe length is 40' (12.2 m) and the pipe size is 1" (2.54 cm).
4. Use the appropriate table to determine the total capacity of your current gas piping.

The total capacity for this example is 320,000 BTU. Since the total required gas pressure, 285,000 BTU is less than 320,000 BTU, the current gas piping will not have to be increased.

NOTE: The BTU capacities given in the tables are for straight pipe lengths only. Any elbows or other fittings will decrease pipe capacities. Contact your local gas supplier if you have any questions.

Maximum Capacity of Iron Pipe in Cubic Feet of Natural Gas Per Hour

(Pressure drop of 0.5 Inch W.C.)

PIPE LENGTH (FT)	NOMINAL SIZE, INCHES				
	3/4"	1"	1-1/4"	1-1/2"	2"
10	360	680	1400	2100	3950
20	250	465	950	1460	2750
30	200	375	770	1180	2200
40	170	320	660	990	1900
50	151	285	580	900	1680
60	138	260	530	810	1520
70	125	240	490	750	1400
80	118	220	460	690	1300
90	110	205	430	650	1220
100	103	195	400	620	1150

From the National Fuel Gas Code Part 10 Table 10-2

Maximum Capacity of Pipe in Thousands of BTU/hr of Undiluted L.P. Gas at 11" W.C.

(Pressure drop of 0.5 Inch W.C.)

PIPE LENGTH (FT)	OUTSIDE DIAMETER, INCHES		
	3/4"	1"	1-1/2"
10	608	1146	3525
20	418	788	2423
30	336	632	1946
40	287	541	1665
50	255	480	1476
60	231	435	1337
70	215	404	1241
80	198	372	1144
90	187	351	1079
100	175	330	1014

From the National Fuel Gas Code Part 10 Table 10-15

Gas Connection

PRESSURE REGULATION AND TESTING

DFG-100-3 ovens are rated at 55,000 BTU/Hr. (16.2 kW) (58 MJ) per section. DFG-200-L ovens are rated at 60,000 BTU/Hr. (17.6 kW) (63 MJ) per section. Each oven has been adjusted at the factory to operate with the type of gas specified on the rating plate.

INLET PRESSURE				
	Natural		Propane	
	Min	Max	Min	Max
W.C.	7.0	10.5	11.0	13.0
kPa	1.742	2.61	2.74	3.23
MANIFOLD PRESSURE				
	Natural		Propane	
W.C.	3.5		10.0	
kPa	.87		2.49	

- Inlet Pressure - the pressure of the gas before it reaches the oven.
- Manifold Pressure - the pressure of the gas as it enters the main burner(s).
- Min - the minimum pressure recommended to operate the oven.
- Max - the maximum pressure at which the manufacturer warrants the oven's operation.

Each oven is supplied with a regulator to maintain the proper gas pressure. The regulator is essential to the proper operation of the oven and should not be removed. It is preset to provide the oven with 3.5" W.C. (0.87 kPa) for natural gas and 10.0" W.C. (2.50 kPa) for Propane at the manifold.

DO NOT INSTALL AN ADDITIONAL REGULATOR WHERE THE OVEN CONNECTS TO THE GAS SUPPLY UNLESS THE INLET PRESSURE IS ABOVE MAXIMUM.

Prior to connecting the oven, gas lines should be thoroughly purged of all metal filings, shavings, pipe dope, and other debris. After connection, the oven should be checked for correct gas pressure.

The oven and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig (13.85" W.C., 3.45 kPa).

The oven must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas piping system at test pressures equal or less than 1/2 psig (13.85" W.C., 3.45 kPa).

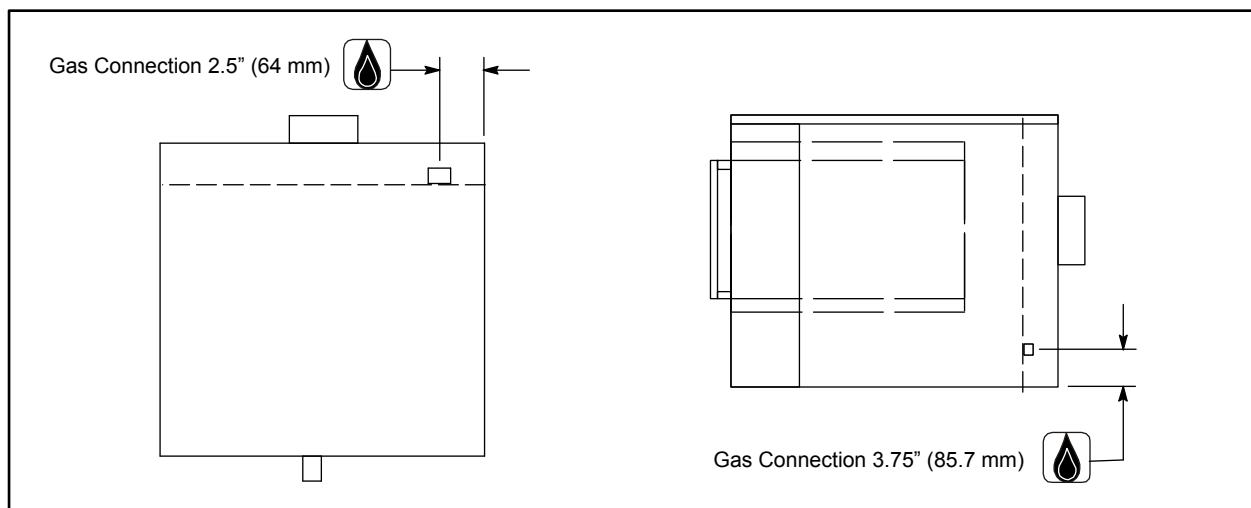


Figure 9



Installation

Gas Connection

GAS HOSE RESTRAINT

If the oven is mounted on casters, a commercial flexible connector with a minimum of 3/4" (1.9 cm) inside diameter must be used along with a quick connect device.

The restraint, supplied with the oven, must be used to limit the movement of the unit so that no strain is placed upon the flexible connector. With the restraint fully stretched the connector should be easy to install and quick connect.

The restraint (ie: heavy gauge cable) should be 1,000 lb. (453 kg) test load and should be attached without damaging the building. DO NOT use the gas piping or electrical conduit for the attachment of the permanent end of the restraint! Use anchor bolts in concrete or cement block. On wooden walls, drive hi test wood lag screws into the studs of the wall.

1. Mount the supplied bracket to the leg bolt just below the gas inlet.
2. Attach the clip on restraining cable to the mounting bracket.

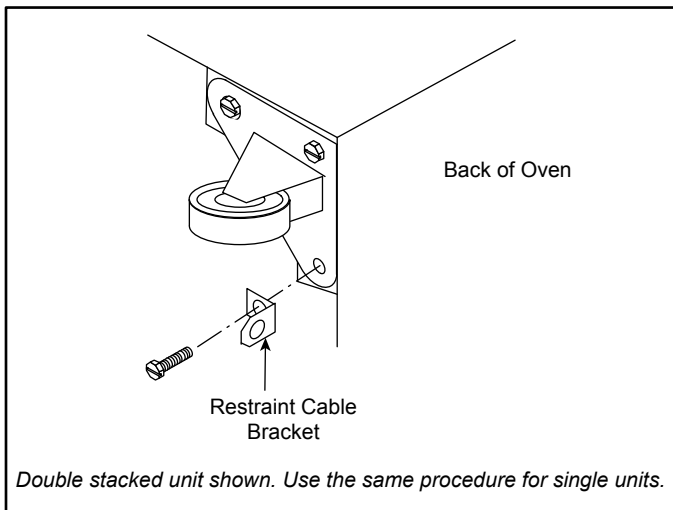


Figure 10



WARNING!!

If the restraint is disconnected for any reason it must be reconnected when the oven is returned to its original position.

U.S. and Canadian installations

The connector must comply 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 For Use With Gas Fuel CAN 1-6.9. Adequate means must be provided to limit the movement of the appliance without depending on the connection and the quick disconnect device or its associated piping.

Australie and general export installations

The restraint and quick connect must conform with Local and National installation standards. Local installation codes and/or requirements may vary. If you have any questions regarding the proper installation and/or operation of your Blodgett oven, please contact your local distributor. If you do not have a local distributor, please call the Blodgett Oven Company at 0011-802-658-6600.

Installation

Electrical Connection

Wiring diagrams are located in the control compartment and on the back of the oven.

This oven is supplied for connection to 115 volt grounded circuits. The electric motor, indicator lights and related switches are connected through the 6' electric supply cord found at the rear of the oven.



WARNING!!

This appliance is equipped with three prong grounding type 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.

The Blodgett Oven Company cannot assume responsibility for loss or damage suffered as a result of improper installation.

ELECTRICAL SPECIFICATIONS					
Model	Hz	Volts	Phase	Amps	Electrical Connection (minimum size)
U.S. and Canadian Installations					
DFG-100-3	60	115	1	6	Cord set provided
DFG-200-L	60	115	1	6	Cord set provided
Australia and General Export Installations					
DFG-100-3	50	220-240	1	3	Size per local code
DFG-200-L	50	220-240	1	3	Size per local code



Installation

Initial Startup

The following is a check-list to be completed by qualified personnel prior to turning on the appliance for the first time.

1. Open the manual shut-off valve at the rear of the oven.
2. Remove the control panel and combustion covers.
3. Turn the combination valve's manual shut-off to the on position.
4. Turn the selector switch to Cook, and the thermostat to 50°F (260°C).

The oven main burner lights, and the Oven Ready Light comes on. With the main burner on, check the following.

1. Verify there are no gas leaks, by checking all gas connections with a soapy water solution.
2. Verify that the inlet pressure is correct. The inlet pressure can be checked at the pressure tap located on the combination valve's inlet side.
3. Verify that the manifold pressure is correct. The manifold pressure can be checked at the pressure tap located on the manifold.
4. If the above pressure readings are set to the recommended pressure requirements, allow the oven to burn-off for 2 hours. If the pressure readings are not set correctly, turn off the oven and readjust accordingly.



WARNING

The break in procedure burns off excess oils present in the metals during fabrication. Smoke may be produced. Proper ventilation is required.

Adjustments associated with initial installation

Each oven, and its component parts, have been thoroughly tested and inspected prior to shipment. However, it is often necessary to further test or adjust the oven as part of a normal and proper installation. These adjustments are the responsibility of the installer, or dealer. Since these adjustments are not considered defects in material or workmanship, they are not covered by the Original Equipment Warranty. They include, but are not limited to:

- calibration of the thermostat
- adjustment of the doors
- burner adjustments
- leveling
- testing of gas pressure
- tightening of fasteners.

No installation should be considered complete without proper inspection, and if necessary, adjustment by qualified installation or service personnel.



The information contained in this section is provided for the use of qualified operating personnel. Qualified operating personnel are those who have carefully read the information contained in this manual, are familiar with the functions of the oven and/or have had previous experience with the operation of the equipment described. Adherence to the procedures recommended herein will assure the achievement of optimum performance and long, trouble-free service.

Please take the time to read the following safety and operating instructions. They are the key to the successful operation of your Blodgett oven.



SAFETY TIPS

For your safety read before operating

What to do if you smell gas:

- DO NOT try to light any appliance.
- DO NOT touch any electrical switches.
- Use an exterior phone to call your gas supplier immediately.
- If you cannot reach your gas supplier, call the fire department.

What to do in the event of a power failure:

- Turn all switches to off.
- DO NOT attempt to operate the oven until the power is restored.

NOTE: In the event of a shut-down of any kind, allow a five (5) minute shut off period before attempting to restart the oven.

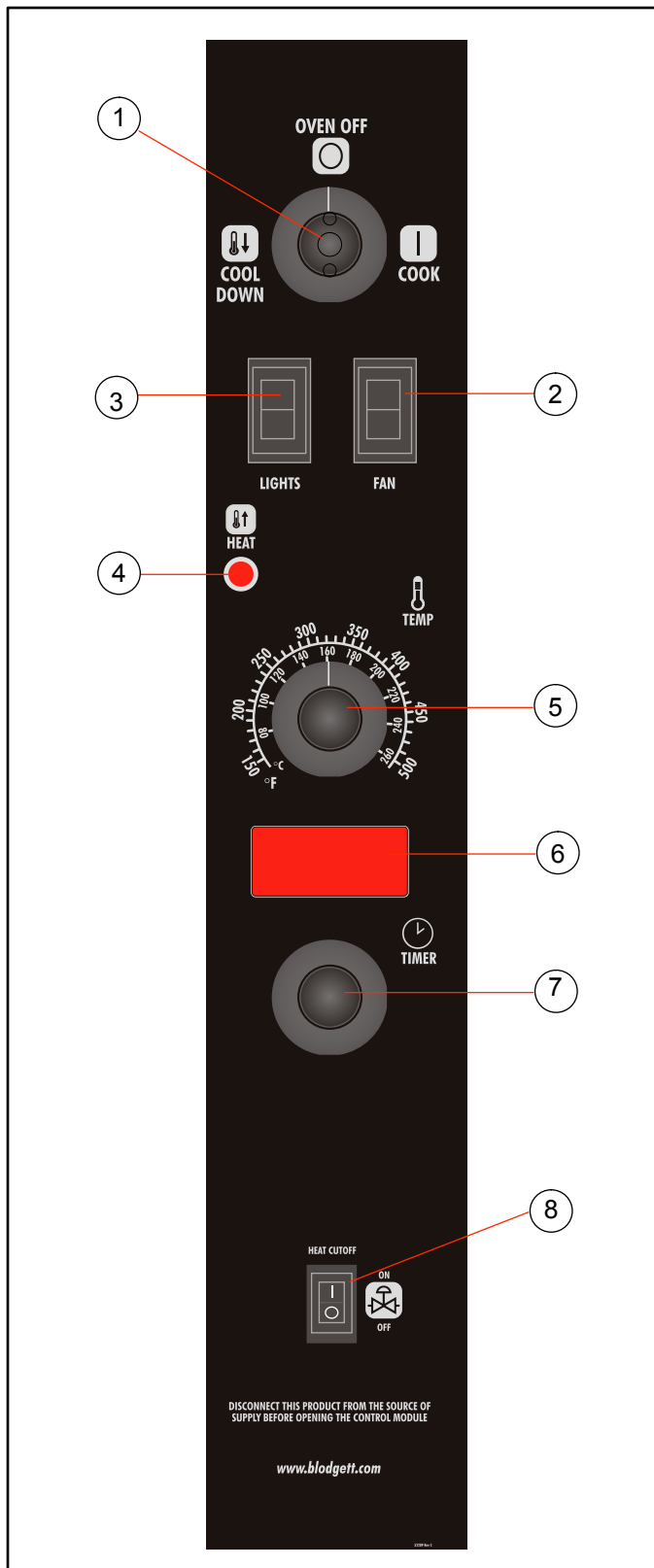
General safety tips:

- DO NOT use tools to turn off the gas control. If the gas cannot be turned off manually do not try to repair it. Call a qualified service technician.
- If the oven needs to be moved for any reason, the gas must be turned off and disconnected from the unit before removing the restraint cable. Reconnect the restraint after the oven has been returned to its original location.
- DO NOT remove the control panel cover unless the oven is unplugged.



Operation

SSI-D Solid State Infinite Control with Digital Timer



CONTROL DESCRIPTION

1. SELECTOR SWITCH - controls power to the oven for cook or cool down.
2. BLOWER SWITCH - controls blower speed, either hi or lo.
3. LIGHTS SWITCH - controls interior lights.
4. OVEN READY LIGHT - when lit indicates burner operation. When the light goes out the oven has reached operating temperature.
5. SOLID STATE THERMOSTAT - allows an infinite selection of temperatures from 150-500°F (66-260°C).
6. DISPLAY - displays cook time
7. TIMER DIAL - used to enter desired cook time
8. HEAT CUTOFF - used to turn gas on or off.

OPERATION

1. Turn the SELECTOR Switch (1) to COOK. The blower and control compartment cooling fan operate and are controlled automatically by the action of the doors. The display reads 00:00.
2. Set BLOWER Switch (2) to the desired speed.
3. Set the SOLID STATE THERMOSTAT (5) to the desired temperature.
4. Preheat until the OVEN READY LIGHT (4) goes out.
5. Load product into the oven. Rotate the dial (7) to the desired time. The timer will begin to countdown after approximately 1 second.
6. When the buzzer sounds, remove the product from the oven. Turn the TIMER dial (7) to silence the buzzer.
7. Turn the SELECTOR Switch (1) to OVEN OFF.



WARNING!!

A complete five minute shutdown must be observed before the oven is relighted.

Figure 11



SSI-M Solid State Infinite Control with Manual Timer

CONTROL DESCRIPTION

1. SELECTOR SWITCH - controls power to the oven for cook or cool down.
2. BLOWER SWITCH - controls blower speed, either hi or lo. Two speed not available in 50 Hz.
3. LIGHTS SWITCH - controls interior lights.
4. OVEN READY LIGHT - when lit indicates burner operation. When the light goes out the oven has reached operating temperature.
5. SOLID STATE THERMOSTAT - allows either 8 pre-set temperatures to be selected in accordance with customer requirements, or an infinite selection of temperatures from 200-500°F (95-260°C). (infinite control shown)
6. TIMER - activates an electric buzzer that sounds when the cook time expires.

OPERATION

1. Turn the SELECTOR Switch (1) to COOK. The blower and control compartment cooling fan operate and are controlled automatically by the action of the doors.
2. Set BLOWER Switch (2) to the desired speed.
3. Set the SOLID STATE THERMOSTAT (5) to the desired setting or temperature.
4. Preheat until the OVEN READY LIGHT (4) goes out.
5. Load product into the oven. Determine cook time and set the TIMER (6).
6. When the buzzer sounds, remove the product from the oven. Turn the TIMER knob (6) to OFF to silence the buzzer.
7. Turn the SELECTOR Switch (1) to OVEN OFF.



WARNING!!

A complete five minute shutdown must be observed before the oven is relighted.

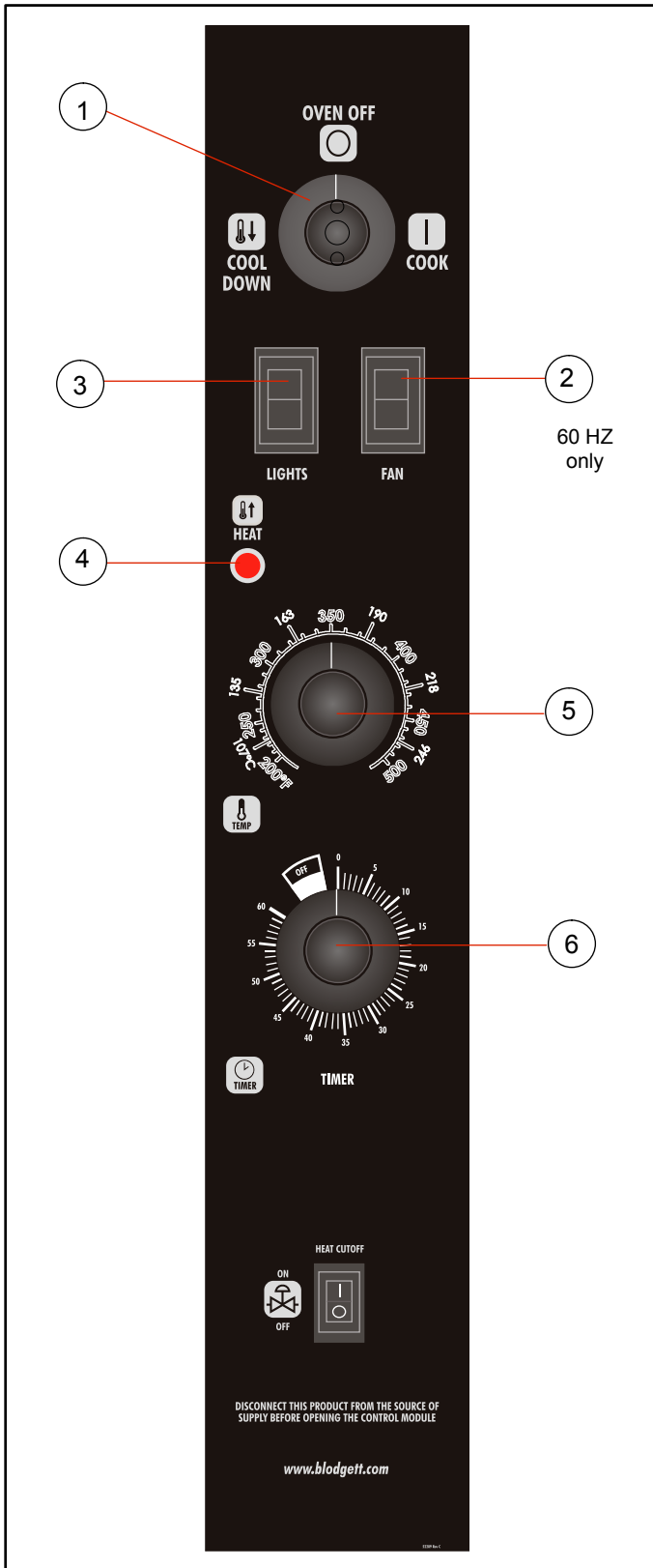


Figure 12



Operation

SSD Solid State Digital Control

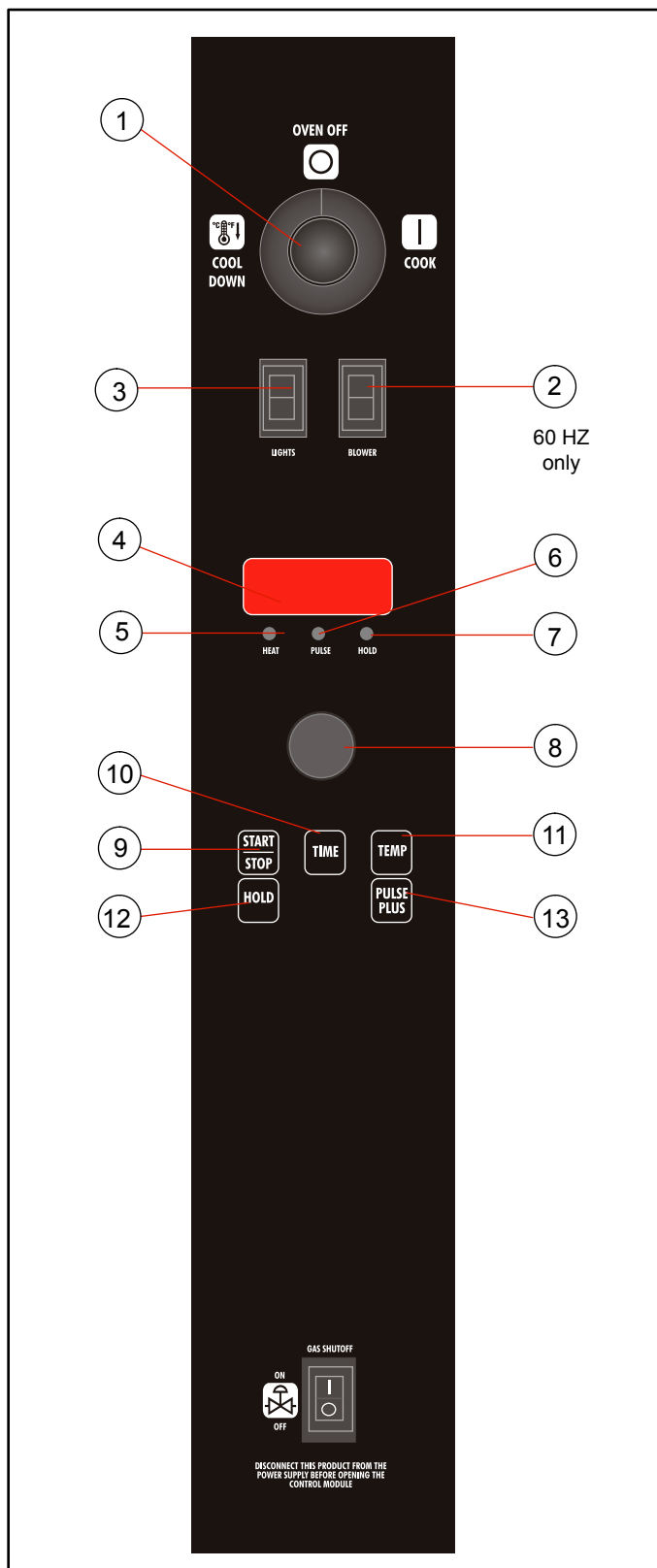


Figure 13

CONTROL DESCRIPTION

1. SELECTOR SWITCH - turns power to the oven on or off. Allows selection of Cook or Cool Down Modes and fan speed (if applicable).
 2. BLOWER SWITCH - controls blower speed, either hi or lo. Two speed not available in 50 Hz.
 3. LIGHTS SWITCH - controls interior lights.
 4. DISPLAY - displays time or temperature and other information related to oven function.
 5. HEAT LAMP - lights when heater is on.
 6. PULSE LAMP - lights when Pulsed Fan Mode is turned on.
 7. HOLD LAMP - lights when Hold Mode is turned on.
 8. DIAL - used to enter set points in display
 9. START/STOP KEY - starts or stops the timer.
 10. TIME KEY - used to show time in the display.
 11. TEMP KEY - used to show set temperature in the display.
- NOTE: Actual temperature is shown while the TEMP key is held down.*
12. HOLD KEY - turns Hold Mode on or off.
 13. PULSE KEY - turns Pulse Mode on or off.

PROGRAMMING

To set the cook temperature:

1. Press TEMP (11) key.
2. Rotate dial (8) to enter temperature.

To set the cook time:

1. Press TIME (10) key.
2. Rotate the dial (8) to enter time.

NOTE: Time is entered in hours : minutes or minutes : seconds.

To set the hold time:

1. Press HOLD key (12) to turn hold mode on.
- NOTE: HOLD light is on.*
2. Rotate dial (8) to enter the hold temperature.
 3. Press START/STOP key (9)



SSD Solid State Digital Control

TO SET THE PULSE TIME:

1. Press PULSE KEY (13) to turn pulse mode on.
NOTE: Pulse light is on.
2. Rotate DIAL (8) to enter the pulse time. Pulse time is a portion of the pre-set cook time.

OPERATION

Cook Only:

1. Turn the SELECTOR switch (1) to the desired position.
2. Enter the cook time and temperature.
3. Load product into the oven.
NOTE: The display reads LOAD when the oven is near the set temperature.
4. Press the START/STOP key (9). The timer begins to count down.
5. When the cook timer reaches 00:00 the buzzer sounds and the display reads DONE.
6. Press the START/STOP key (9) to silence the buzzer.
7. Remove the product.

Cook with Hold:

NOTE: HOLD light is on when hold mode is on and off when hold mode is off.

1. Turn the SELECTOR switch (1) to the desired position.
2. Enter the cook time and temperature.
3. Press the HOLD key (12). Enter the hold temperature.
4. Load product into the oven.
NOTE: The display reads LOAD when the oven is near the set temperature.
5. Push the START/STOP (9) key. Timer begins to count down.
6. When the cook timer reaches 00:00 the buzzer sounds and the display reads DONE. The buzzer turns off after a few seconds. The display reads HOLD until the oven reaches the hold temperature. Then the timer begins to count up.
7. Push the START/STOP key (9) to stop timer.
8. Remove the product.
9. Push HOLD (12) key to turn off hold mode.

Cook with Pulse:

NOTE: PULSE light is on when pulse mode is on and off when pulse mode is off.

1. Turn the SELECTOR SWITCH (1) to the desired position.
2. Enter cook time and cook temperature.
3. Press PULSE KEY (13). Enter the pulse time.
NOTE: Pulse time is a portion of the cook time and does not increase the previously entered cook time.
4. Load product into the oven.
NOTE: The display reads LOAD when the oven is near the set temperature.
5. Push START/STOP KEY (9). The timer begins to count down the cook time. The oven will be in pulse mode for the set pulse time. Once the set time has expired, the unit will automatically switch to cook mode and continue counting down.
6. When the cook timer reaches 00:00 the buzzer sounds and the display reads DONE.
7. Push the START/STOP KEY (9) to turn the buzzer off.
8. Remove the product.



WARNING!!

A complete five minute shutdown must be observed before the oven is relighted.



Operation

SmartTouch Touchscreen Control

COMPONENT DESCRIPTION

1. DISPLAY - displays controller related information.
2. USB PORT and COVER - Use to transfer recipes and data to/from the control
3. CORE PROBE CONNECTION - plug core temperature probe in here when using probe cooking
4. OVEN POWER SWITCH - controls power to the oven.
5. GAS ON/OFF SWITCH - press to shut off gas to the oven.

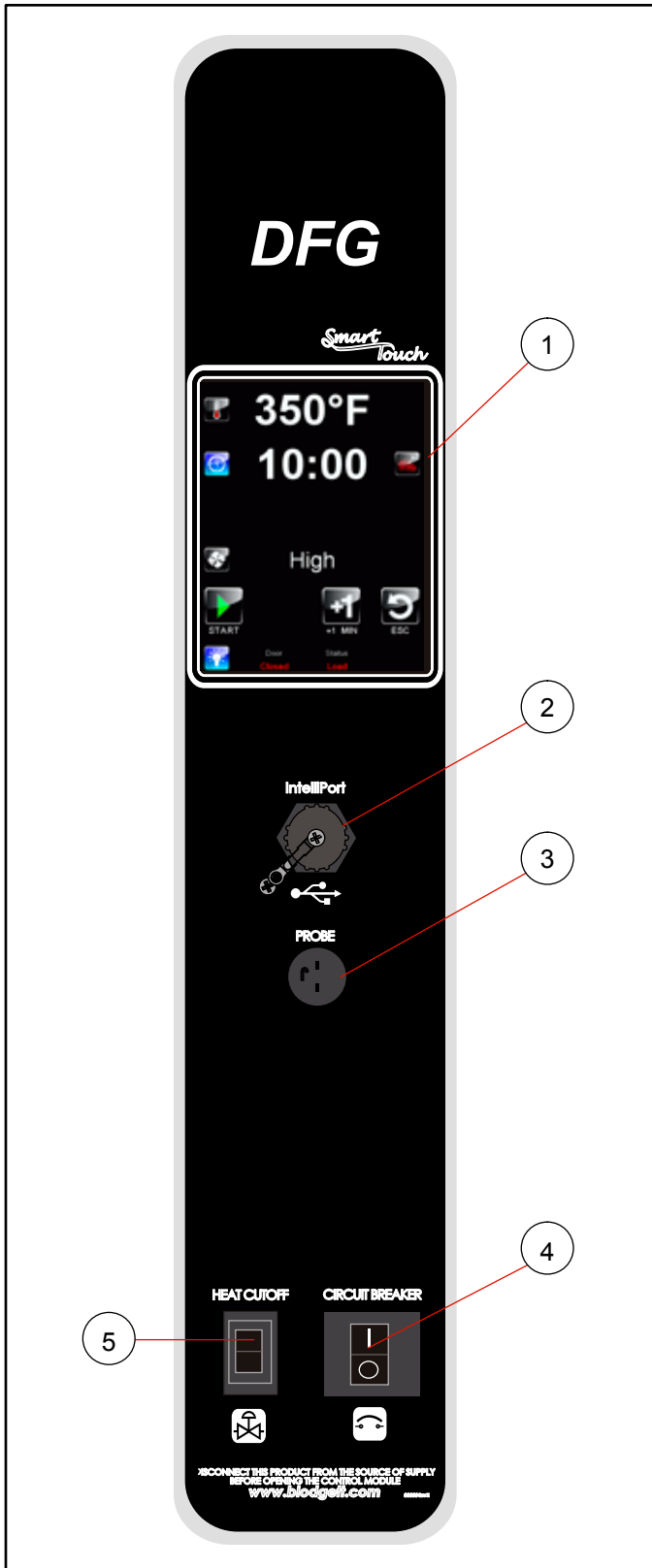


Figure 14



SmartTouch Touchscreen Control

MANUAL MODE COOKING

1. Select the POWER button to turn on the oven and proceed to the manual screen.



Figure 15

2. Set the desired cook settings.

A) Temperature - Press the temperature text and enter the desired oven temperature on the keypad provided. Press SAVE & EXIT key to return to this screen.

B) Cook Time - Press the time text and enter the desired cook time on the keypad provided. Press SAVE & EXIT to return to this screen.

C) Core Probe Cooking - To use the core probe cooking feature, press the PROBE COOK icon. Press the temperature text that appears and enter the desired product core temperature on the keypad provided. Press SAVE & EXIT key to return to the manual cook screen. Insert a product probe in the probe outlet on the control panel. To use the HOLD option, press the HOLD key. Once activated, key will be blue. To escape from probe cooking press the time icon.

D) Fan Speed - Press the fan speed text to toggle between Low or High.

E) Lights - At any time the lights can be turned on by pressing the LIGHT icon. The lights will remain on for 15 seconds.



Figure 16

3. Press START Icon to begin cooking. Press Cancel key to stop cooking. Press +1 MIN to add 1 minute to the cook time.



Operation

SmartTouch Touchscreen Control

MENU MODE COOKING

1. On a manual screen, press the ESC key to exit.
2. Select the MENU key to cook using the preprogrammed menu items.



Figure 17

3. Push the SELECT ITEM PRODUCT ICON in the top right corner of the screen

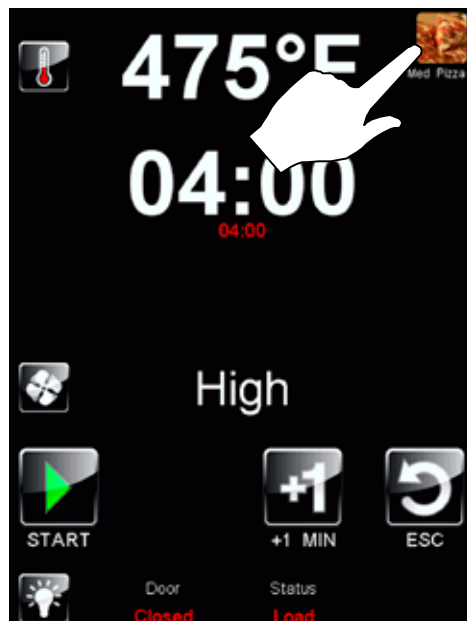


Figure 18

4. Select the desired food category for your product.



Figure 19

5. Within the food category, select the desired product you wish to cook.



Figure 20

6. Once selected the control returns to the Menu Cooking screen. Press the START KEY to begin the cook cycle.

SmartTouch Touchscreen Control

SHELF COOKING

1. Select the SHELF COOKING key.

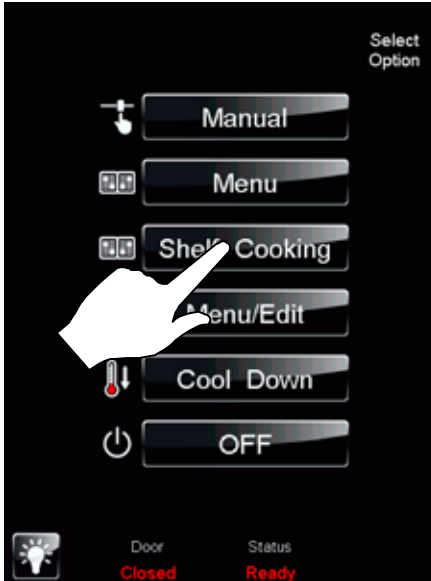


Figure 21

2. Select item icon in the upper right corner to select which item to cook. Select which shelves you intend to place the selected food item on. Press selected item icon in the upper right corner of the screen to add different items that share the same cook temperature but may have different cook times.

Once preheated, start icons will appear. You can choose start all or start individual shelves.



Figure 22

3. During the cook cycle, individual shelf cook timers will count down as the product is cooked. If you wish to cancel the bake, you can press the PAUSE key, or you can pause individual shelves.

To add time, select +1 MIN key for individual shelves or +1 MIN ALL key to add time to all shelves. Each time the key is pressed, 1 minute of cook time is added.

Press STOP again to reset to the original values. CLEAR ALL to clear all products from all shelves. All Shelves must be cleared to escape the screen.

Once the bake is complete the beeper will sound.



Figure 23



Operation

SmartTouch Touchscreen Control

EDITING A MENU

1. Select the MENU/EDIT icon to edit the recipes in the menu mode.

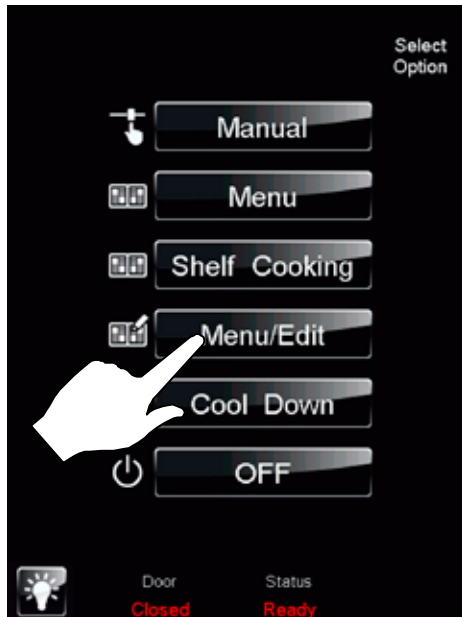


Figure 24

2. Select the EDIT ITEMS icon to edit the menu items.

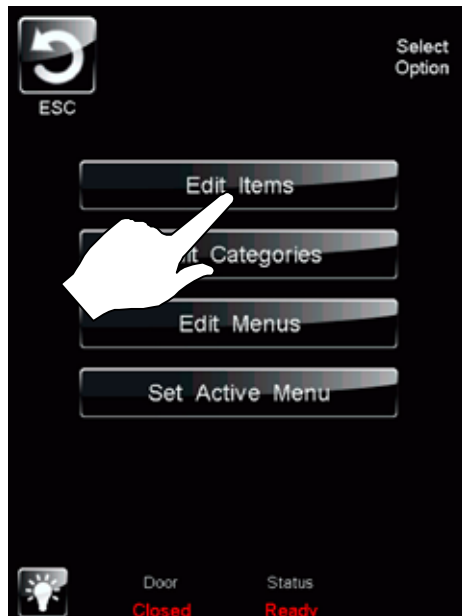


Figure 25

3. To edit an existing item, select the item while the EDIT key at the bottom is highlighted.

To delete an Item, select the item while the DELETE key is highlighted.

To create a new item, select the NEW ? icon while the EDIT key is highlighted.



Figure 26



SmartTouch Touchscreen Control

- Each recipe is made up of steps containing four settings - temperature, time, fan, etc. A new step is needed when you desire a different setting within a step.

To edit a setting within a particular step, press the icon for that setting. A keypad will appear for you to input your value.

To add a step, press the + key icon.

To edit a step, press the arrow keys on the bottom left hand corner of the screen to highlight the step you wish to edit. Follow the instructions above to edit the settings.

To delete a step, use the arrow keys on the bottom left hand corner of the screen to highlight the step you wish to delete. Press the red X icon to delete the highlighted step.

Once you are finished, press the DISK icon to save the changes.



Figure 27



Operation

SmartTouch Touchscreen Control

EDITING A CATEGORY

1. Select the MENU/EDIT icon to edit the recipes in the menu mode.

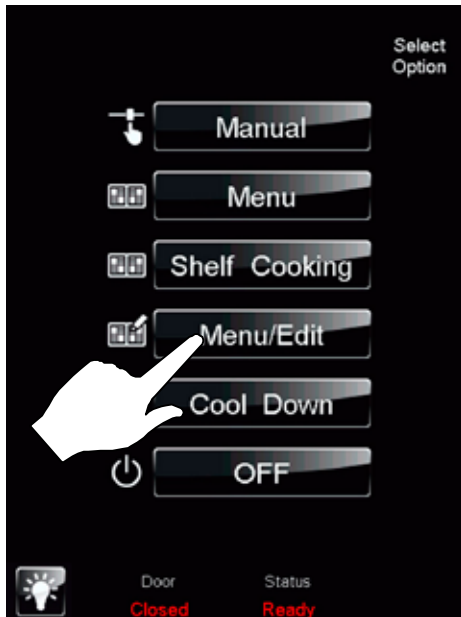


Figure 28

2. Select the EDIT CATEGORIES icon to select which items are in each category.

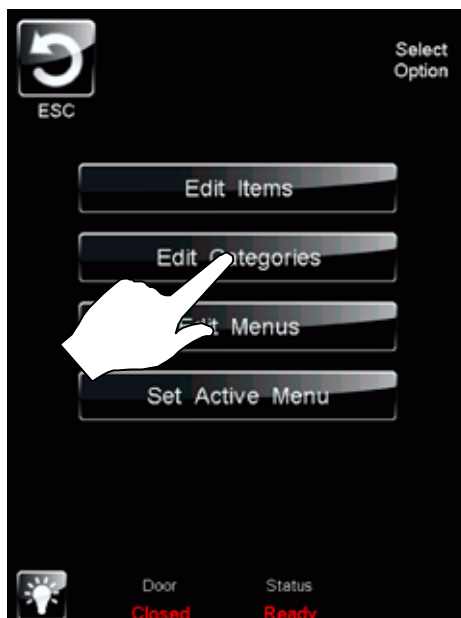


Figure 29

3. To edit an existing category, select the category while the EDIT key is highlighted.

To delete a category, select the category while the DELETE key is highlighted.

To create a new category, select the NEW ? icon while the EDIT key is highlighted.



Figure 30

4. Select what you would like to edit.

To edit the name, press the EDIT NAME key. A keyboard will appear, enter the desired name and press ENTER to return to this menu.



Figure 31



SmartTouch Touchscreen Control

- To edit the category icon, press the category icon displayed in the category edit screen. The Select Icon screen is displayed. Select the desired icon. To view more icon options, press the arrow key.

Once the category icon is selected, the category edit screen is displayed. Press the DISK icon to save your changes.



Figure 32

- To edit items within a category, press the SELECT ITEMS key on the edit category screen.

Select the items you would like to appear within the category. When complete, press ESC key to return to the previous menu. Press the DISK icon to save your changes.



Figure 33



Operation

SmartTouch Touchscreen Control

CREATING NEW MENU ITEMS

1. Select the EDIT ITEMS key.

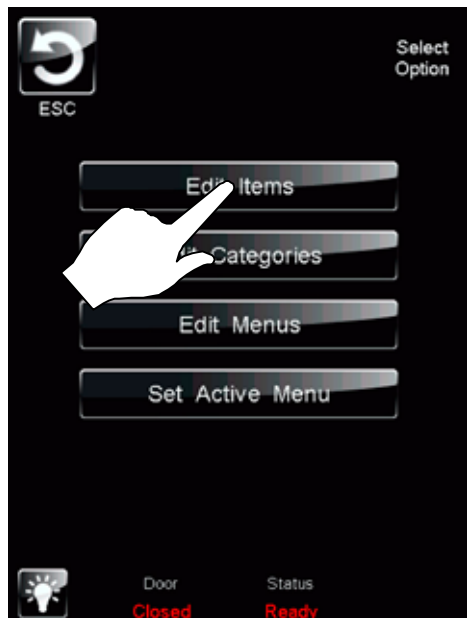


Figure 34

2. Select New?
3. Select the food icon to be displayed. Use the arrow keys to page through the available icons. Press the desired icon to select and return to the previous screen.
4. Name the item. Press the blank shelf below the icon to name the recipe. A keyboard will appear. Enter the desired name. Press ENTER when finished to return to the previous screen.

5. **Program the recipe steps** - Each recipe is made up of steps containing seven settings - temperature, time, fan, etc. A new step is needed when you desire a different setting within a step.

To edit a setting within a particular step, press the icon for that setting. A keypad will appear for you to input your value.

To add a step, press the + key icon.

To edit a step, press the arrow keys on the bottom left hand corner of the screen to highlight the step you wish to edit. Follow the instructions above to edit the settings.

To delete a step, use the arrow keys on the bottom left hand corner of the screen to highlight the step you wish to delete. Press the red X icon to delete the highlighted step.

Once you are finished, press the DISK icon to save the changes.

6. To file recipe under an existing category, press the EDIT CATEGORIES key. Select the desired category. Press the SELECT ITEMS key. Highlight the new item. Press the ESC key. The disk will be displayed, press to save your changes.



SmartTouch Touchscreen Control

CREATING NEW CATEGORIES

1. Select the EDIT CATEGORIES key.

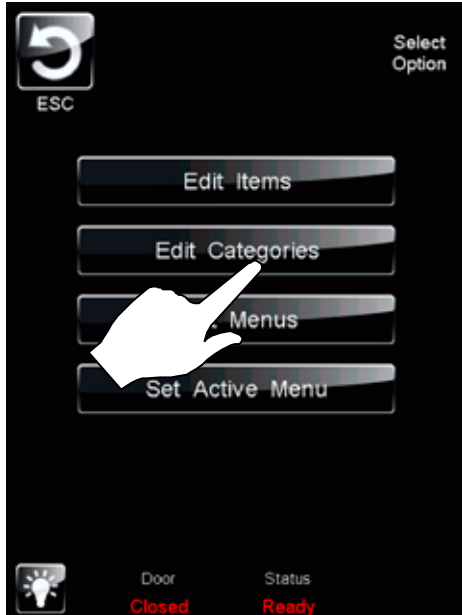


Figure 35

2. Select New?
3. Select the category icon to be displayed. Use the arrow keys to page through the available icons. Press the desired icon to select and return to the previous screen.

4. Press EDIT NAME. A keyboard will appear. Enter the desired name. Press ENTER when finished to return to the previous screen.
5. Press SELECT ITEMS. Select items to be filed in the new category. Items will be highlighted as they are selected. Press ESC key to return to the previous screen. The disk will be displayed, press to save your changes.
6. To display the category, it must be added to the default menu as follows:

Press the EDIT MENUS key. Select the DEFAULT key. Select the CATEGORIES key. Highlight the new category. Press the ESC key to return to the previous screen. The disk will be displayed, press to save your changes.



Operation

SmartTouch Touchscreen Control

TRANSFERRING RECIPES USING THE USB

1. Return to the power screen.



Figure 36

2. Press the TOOLS key. Enter the code 6647 on the keypad.

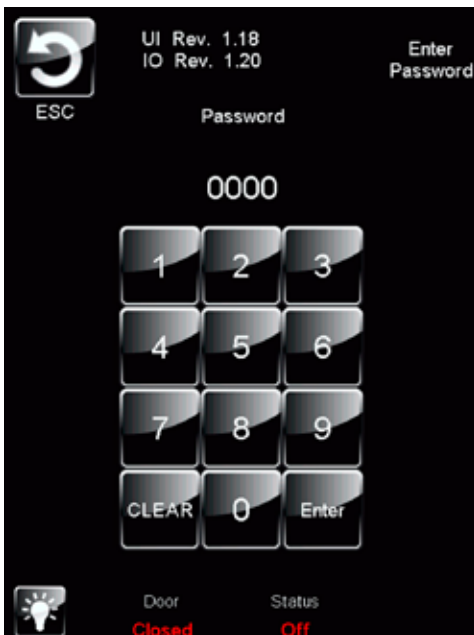


Figure 37

3. Press the MANAGE MENU DATA key. Insert the USB drive into the Intelliport.

To Store Menu Data to a USB

1. Press the STORE MENU DATA to USB key to transfer recipes to the USB.

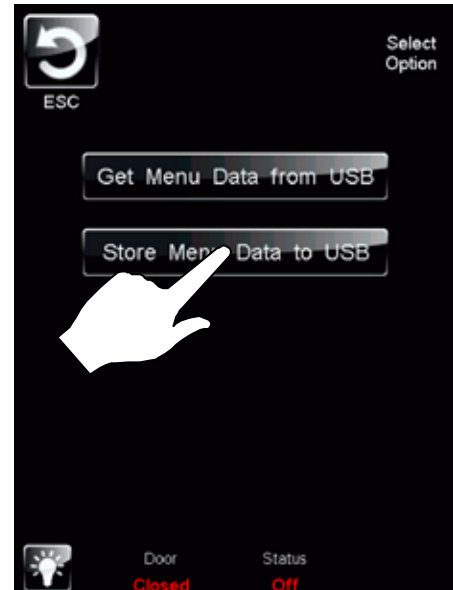


Figure 38

2. The keyboard screen is displayed. Use to enter desired file name. Press the ENTER key when finished.



Figure 39



SmartTouch Touchscreen Control

3. The status screen appears to display the download status. The display returns to the previous screen when download is complete.



Figure 40

4. Press the ESC key to exit USB screen.

To Retrieve Menu Data from USB

1. Press the GET MENU DATA from USB key to transfer recipes from the USB.

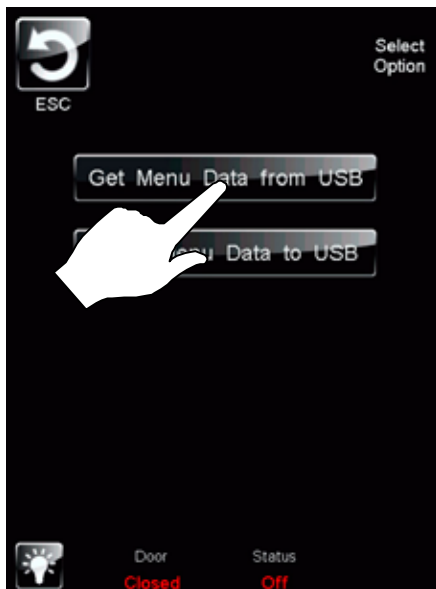


Figure 41

2. The control displays all menu (.MNU) files on the USB drive. Select the desired file.

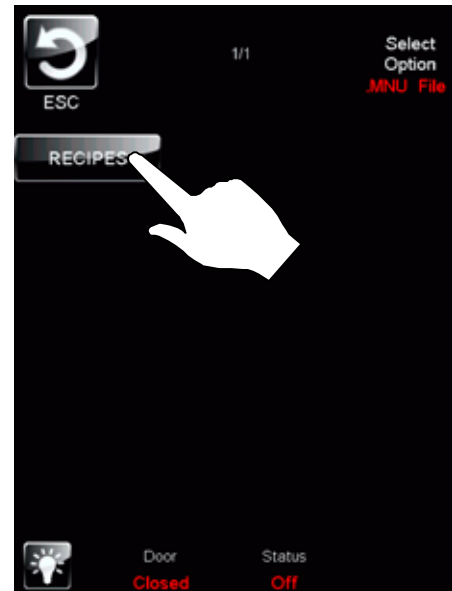


Figure 42

3. The overwrite warning screen appears. Press YES to continue

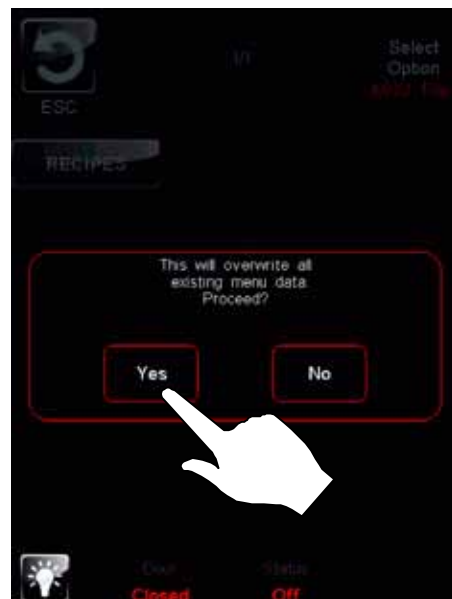


Figure 43

4. The status screen appears to display the upload status. The display returns to the previous screen when upload is complete.
5. Press the ESC key to exit USB screen.



Operation

SmartTouch Touchscreen Control

COOL DOWN

1. To cool down the unit, press the COOL DOWN icon.



Figure 44

2. The oven will toggle between cooling and open door in yellow until the oven is cool. Once cool, the oven will go to standby.

NOTE: If the oven is shut down with the circuit breaker switch at the bottom of the front panel, the display will return to the power screen. Select your option to begin.



Figure 45



How Cook & Hold Works

With the optional COOK & HOLD feature, meat is roasted at lower temperatures for longer periods of time. This preserves flavor and tenderness and prevents over drying. There are three phases in cook and hold roasting.

- Primary Cooking - controlled by the COOK & HOLD TIMER. The meat is cooked at a low temperature until approximately 2/3 done.
- Cooking from Stored Heat - when the primary cook time expires, the oven automatically switches to HOLD. The product continues to cook from the heat stored in the oven. Meat must remain in the hold cycle for a minimum of 1-1/2 to 2 hours before being served.
- Hold - holds the product for several hours before serving without loss of moisture or tenderness.

All meat should be completely thawed by refrigeration. Using frozen meat increases the cook time causing shrinkage.

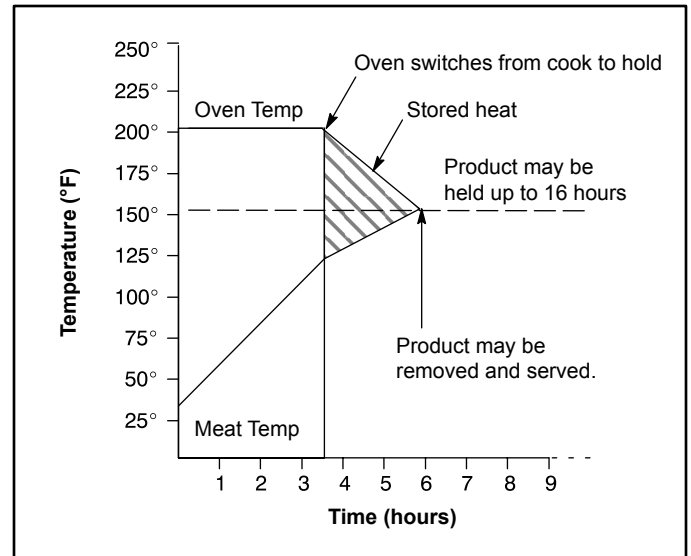


Figure 46

PRODUCT	COOK TEMP.	HOLD TEMP.	QUANTITY	COOK TIME (HRS)	MIN. HOLD TIME (HRS)	TOTAL TIME (HRS)
Prime rib, bone cap off 14-18 lbs. (6.4-8.1 kg)	200°F 93°C	140°F 60°C	1	3	1	4
			3	3-1/4	1-1/2	4-3/4
			6	3-1/2	2	5-1/2
Prime rib, bone cap on 14-18 lbs. (6.4-8.1 kg)	200°F 93°C	140°F 60°C	1	3-1/2	1	4-1/2
			3	4	1-1/2	5-1/2
			6	4-1/2	2	6-1/2
Top or bottom rounds 20-22 lbs. (9.1-10.0 kg)	200°F 93°C	140°F 60°C	1	3-1/2	1	4-1/2
			3	4	1-1/2	5-1/2
			6	4-1/2	2	6-1/2
Pork roast or ham 10-12 lbs. (4.5-5.4 kg)	250°F 121°C	170°F 76°C	2	4	1	5
			4	4-1/4	1-1/2	5-3/4
			6	4-1/2	2	6-1/2
Turkey 20-22 lbs. (9.1-10.0 kg)	250°F 121°C	170°F 76°C	1	3-1/4	1	4-3/4
			6	4	1-1/2	5-1/2
Leg of Lamb, bone in 8-10 lbs. (4.36-4.5 kg)	225°F 107°C	160°F 71°C	2	2-1/2	1	3-1/2
			4	2-3/4	1-1/2	4-1/4
			6	3	2	5



Operation

General Guidelines for Operating Personnel

COOK TIMES AND TEMPERATURES

Preheating the oven

Always preheat the oven before baking or roasting. We recommend preheating 50°F (28°C) above the cook temperature to offset the drop in temperature when the doors are opened and cold product is loaded into the oven. Set the thermostat to the cook temperature after the product is loaded.

NOTE: For frozen product, preheat the oven 100°F (56°C) above the cook temperature.

Cook Temperatures

Generally, cook temperatures should be 50°F (28°C) lower than deck or range oven recipes. If the edges of the product are done but the center is raw, or if there is color variation, reduce the thermostat setting another 15-25°F (10-15°C). Continue to reduce the cook temperature on successive loads until the desired results are achieved.

NOTE: Cooking at excessive temperatures will not reduce cook time, it will produce unsatisfactory baking and roasting results.

Cook Time

Check the product in about half the time recommended for deck or range oven recipes. Record times and temperatures which provide best results for future reference.

NOTE: Cook time will vary with the amount of product loaded, the type of pan and the temperature.

OPERATING TIPS

Pans and Racks

Product or pan height determines how many racks are used. The oven holds up to ten 18" x 26" (45.7 x 66.0 cm) bun pans.

Load the oven from the bottom, centering the pans on the rack. Never place a pan or aluminum foil on the bottom of the oven. This obstructs the flow of air and results in uneven baking and roasting.

Roasting

To reduce shrinkage when roasting, place meat directly on the racks. Place a sheet pan one-half full of water in the bottom rack position. The water evaporates, increasing humidity in the oven chamber. The pan catches grease from the meat, making oven cleaning easier.

Baking

Weigh the product to ensure equal distribution in each pan. Varying amounts of product will cause uneven baking results.

Fans

The fan must be operating for the oven to heat. Use the Pulse Plus feature to allow light or liquid product to set in the pan and to avoid rippling towards the fan. If your oven is not equipped with this feature use the following procedure.

1. Preheat the oven 25°F (15°C) above the baking temperature.
2. Load the oven with product. Close the doors.
3. Set the thermostat to the baking temperature.
4. Turn the oven off.
5. Allow the product to set for 5-7 minutes with the fan off. The residual heat in the oven sets the product.
6. Turn the oven on for the remainder of the bake.

Lights

Turn the oven lights off when not viewing the product. Leaving the lights on for extended periods of time shortens the bulb life considerably.

Suggested Times and Temperatures

PRODUCT	TEMPERATURE	TIME	# SHELVES
Meats			
Hamburger Patties (5 per lb)	400°F (205°C)	8-10 mins.	10
Steamship Round (80 lb. quartered)	275°F (135°C)	2 hrs 45 mins.	2
Standing Rib Choice (20 lbs, trimmed, rare)	235°F (115°C)	2 hrs 45 mins.	2
Banquet Shell Steaks (10 oz. meat)	450°F (235°C)	7-8 mins.	5
Swiss Steak after Braising	275°F (135°C)	1 hr.	5
Baked Stuffed Pork Chop	375°F (190°C)	25-30 mins.	5
Boned Veal Roast (15 lbs.)	300°F (150°C)	3 hrs. 10 mins.	2
Lamb Chops (small loin)	400°F (205°C)	7-8 mins.	5
Bacon (on racks in 18" x 26" pans)	400°F (205°C)	5-7 mins.	10
Poultry			
Chicken Breast & Thigh	350°F (175°C)	40 mins.	5
Chicken Back & Wing	350°F (175°C)	35 mins.	5
Chicken (21/2 lbs. quartered)	350°F (175°C)	30 mins.	5
Turkey Rolled (18 lb. rolls)	310°F (155°C)	3 hrs 45 mins.	3
Fish and Seafood			
Halibut Steaks, Cod Fish (frozen 5 oz)	350°F (175°C)	20 mins.	5
Baked Stuffed Lobster (21/2 lb.)	400°F (205°C)	10 mins.	3
Lobster Tails (frozen)	425°F (220°C)	9 mins.	5
Cheese			
Macaroni & Cheese Casserole	350°F (175°C)	30 mins.	5
Melted Cheese Sandwiches	400°F (205°C)	8 mins.	10
Potatoes			
Idaho Potatoes (120 ct.)	400°F (205°C)	50 mins.	5
Oven Roasted Potatoes (sliced or diced)	325°F (165°C)	10 mins.	5
Baked Goods			
Frozen Berry Pies (22 oz)	325°F (150°C)	35 mins.	5 (30 pies)
Fresh Apple Pie (20 oz.)	350°F (175°C)	25-30 mins.	5 (30 pies)
Pumpkin Pies (32 oz.)	300°F (150°C)	30-50 mins.	5 (20 pies)
Fruit Crisp	300°F (150°C)	25 mins.	5
Bread (24 - 1 lb. loaves)	325°F (155°C)	30 mins.	3
Southern Corn Bread	375°F (190°C)	15-20 mins.	5
Baking Soda Biscuits	400°F (205°C)	6 mins.	5
Brown & Serve Rolls	350°F (175°C)	15 mins.	5
Sheet Cakes (5 lb. mixed batter per pan)	325°F (160°C)	16-18 mins.	5
Chocolate Cake	325°F (160°C)	20 mins.	5
Brownies	325°F (150°C)	15 mins.	5

NOTE: Actual times and temperatures may vary considerably from those shown above. They are affected by weight of load, temperature of the product, recipe, type of pan and calibration of thermostat. Should your recipe vary, write in your proven time and temperature for ready reference.



Maintenance

Cleaning and Preventative Maintenance

CLEANING THE OVEN



WARNING!!

Always clean the unit when it is cold.



WARNING!!

Be sure to read and follow the MSDS or safety instructions on the bottle for your oven cleaner.

Cleaning the Exterior

1. Saturate a cloth with stainless steel cleaner and wipe down the exterior.

NOTE: Heat tint and heavy discoloration may be removed with any non-caustic commercial oven cleaner.

2. Dry the oven with a clean cloth.

Cleaning the Oven Interior

1. Remove the racks, rack supports and blower wheel cover (back panel) from the oven. Soak the parts in a solution of ammonia and water.

NOTE: To remove the blower wheel cover loosen the screws in each corner. Then lift up and out.

2. The porcelain interior can be cleaned with any commercial oven cleaner. Be sure caustic cleaning compounds DO NOT come in contact with the temperature probe, heating element, and blower wheel. Let the cleaner sit for 10-20 minutes or the length of time recommended on your cleaner.
3. Wipe out the cleaner with a wet cloth.
4. Reinstall the racks, rack supports and blower wheel cover.

Weekly Cleaning

Be sure the air intake (cooling fan) behind the oven is free of all lint, grease or other air flow inhibitors. Keeping the air intake free of obstructions will extend the life of the oven components.

PREVENTATIVE MAINTENANCE

The best preventative maintenance measures are, the proper installation of the equipment and a program for routinely cleaning the ovens.

Annual Maintenance

This oven requires no lubrication, however, the venting system should be checked annually for possible deterioration resulting from moisture and corrosive flue products.

If maintenance or repairs are required, contact your local Blodgett service company, a factory representative or the Blodgett Oven company.



WARNING!!

Always disconnect the appliance from the power supply before servicing or cleaning.



POSSIBLE CAUSE(S)		SUGGESTED REMEDY	
SYMPTOM: Oven will not fire.			
<ul style="list-style-type: none">Gas turned off.Oven not plugged in.Power switch on the control panel is off.Control set below ambient temperature.Doors are open.Computerized controls - error code on display.		<ul style="list-style-type: none">Turn the gas valve to ON.Plug in electrical supply cord.Set the control panel to COOK or OVEN ON.Set to desired cook temperature.Close doors.*	
SYMPTOM: Oven does not come to ready.			
<ul style="list-style-type: none">The oven has not reached preheat temperature.Gas valve not turned on completely.The quick disconnect is not connected.Gas pressure to oven is too low.Fan delay feature may be activated, if applicable.Internal problem with main temperature control.		<ul style="list-style-type: none">Wait for oven to reach preheat temperature.Check the gas valve, turn on fully if necessary.Reconnect the quick connect. Check all gas connections.Call your local gas representative.Deactivate fan delay feature.*	
SYMPTOM: Convection fan does not run.			
<ul style="list-style-type: none">Oven is not plugged in.Oven is not set to the cook mode.Circuit breaker tripped.Fan delay feature may be activated, if applicable.Doors are open		<ul style="list-style-type: none">Plug in electrical supply cord.Set the control panel to COOK or OVEN ON.Reset the breaker.Deactivate fan delay feature.Close doors.	
SYMPTOM: General baking problems.			
<ul style="list-style-type: none">Computerized controls - incorrect product programming.Thermostat out of calibration.Improper oven venting.		<ul style="list-style-type: none">Reprogram control per Operation section.**	
<i>*Denotes remedy is a difficult operation and should be performed by qualified personnel only. It is recommended, however, that All repairs and/or adjustments be done by your local Blodgett service agency and not by the owner/operator. Blodgett cannot assume responsibility for damage as a result of servicing done by unqualified personnel.</i>			



WARNING!!

Always disconnect the power supply before cleaning or servicing the oven.