



### ZEPHAIRE-E ELECTRIC CONVECTION OVEN INSTALLATION -- OPERATION -- MAINTENANCE



#### **BLODGETT OVEN COMPANY**

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> PN 90147 Rev G (6/01) E 2001 – G.S. Blodgett Corporation

### IMPORTANT

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

#### 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.



#### THE REPUTATION YOU CAN COUNT ON

For over a century and a half, The Blodgett Oven Company has been building ovens and nothing but ovens. We've set the industry's quality standard for all kinds of ovens for every foodservice operation regardless of size, application or budget. In fact, no one offers more models, sizes, and oven applications than Blodgett; gas and electric, full-size, half-size, countertop and deck, convection, Cook'n Hold, Combi-Ovens and the industry's highest quality Pizza Oven line. For more information on the full line of Blodgett ovens contact your Blodgett representative.

		Model:
Your Service Agency's Address:		
		Serial Number:
	-	Your oven was installed by:
	Your	oven's installation was checked by:

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#### **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.

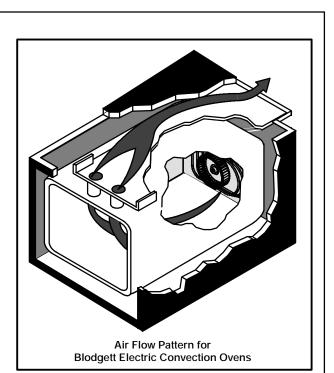


Figure 1

K/M/Continu	Valta	Dhaqa		Amp	eres		Electrical
KW/Section	Volts	Phase	L1	L2	L3	Ν	Connection AWG*
60 HZ UNIT	S						
11	208	1	51	0	51	-	6
11	208	3	31	29	29	-	8
11	220-240	1	44	0	44		6
11	220-240	3	26	24	24	-	8
11	440	3	15	14	14	-	12
11	480	3	14	13	13		12
50 HZ UNIT	S						
11.0	220/380	3	18	16	16	2	
11.0	240/415	3	18	14	14	8	Size per local code
11.0	230/400	3	18	15	15	3	

\* Electric connection wiring is sized for 90\_C copper wire at 125% of rated input.

#### **Oven Components**

**Heating Elements** – located in the back of the oven, the elements provide heat to the baking chamber on electric ovens.

**Control Panel** – contains wiring and components to control the oven operation.

**Oven Racks** – five racks are provided standard. Additional racks are available.

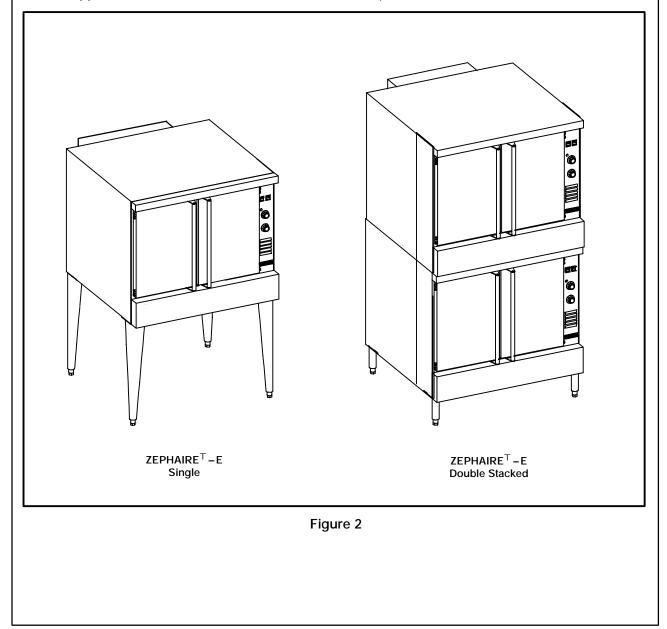
**Rack Supports** – hold oven racks.

**Baffle** – located on the back interior wall of the oven. Protects the blower wheel.

**Blower Wheel** – spins to circulate hot air in the baking chamber.

**Blower Motor** – provides power to turn the blower wheel.

**Oven Lights** – provide lighting inside the baking compartment.



#### **Delivery and Location**

#### **DELIVERY AND INSPECTION**

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

- D 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.
- D 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.

- D Oven body right side 1/2'' (1.3 cm)
- D Oven body left side 1/2" (1.3 cm)
- D Oven body back 1/2'' (1.3 cm)
- D Oven body bottom 1/2'' (1.3 cm)

Adequate clearances must be available for servicing.

- D Keep the oven area free and clear of all combustibles such as paper, cardboard, and flammable liquids and solvents.
- D Do not place the oven on a curb base or seal to a wall. This will restrict the flow of air and prevent proper ventilation resulting in damage to the oven.

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

1. The rating plate is attached under ledge above the door.

#### Utility Connections - Standards and Codes

THE INSTALLATION INSTRUCTIONS CON-TAINED HEREIN ARE FOR THE USE OF QUALI-FIED 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:

D 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 Electrical Code, ANSI/NFPA 70–Latest Edition and/or Canadian National Electric Code C22.2* as applicable.

#### General export installations

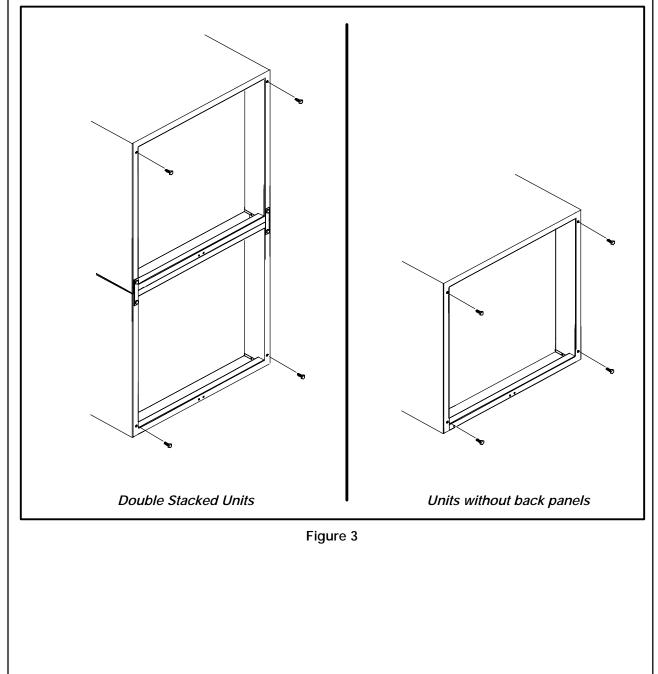
Installation must conform with Local and National installation standards. Local installation codes and/or requirements may vary. If you have any questions regarding the proper installation and/or operation of your Blodgett oven, please contact your local distributor. If you do not have a local distributor, please call the Blodgett Oven Company at 0011-802-860-3700.

#### **Oven Assembly**

#### NSF BOLTS

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

- $\ensuremath{\,\text{D}}$  any unit, single or stacked, without a back panel.
- D 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 in Figure 3.





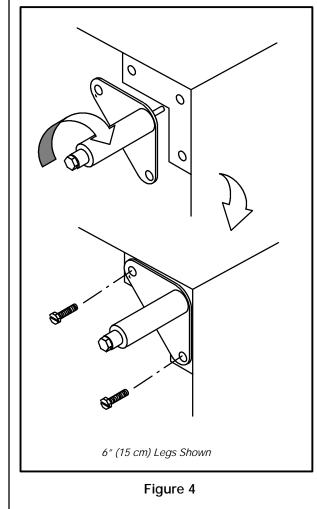
#### **Oven Assembly**

#### LEG ATTACHMENT

- 1. Lay the oven on its back.
- 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 AS-SEMBLY before proceeding.

- 4. Tip the oven up on the legs.
- 5. Level the oven by screwing the adjustable leg feet in or out as necessary.

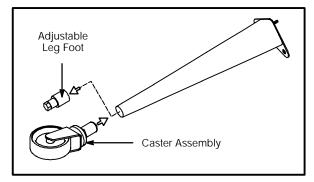


#### CASTER ASSEMBLY

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

#### Casters for Single and Double Stacked Ovens:

- 1. Attach the legs as described.
- 2. Pry the adjustable feet out of the legs.
- Insert one caster into each leg as shown. Tighten the large hex nut to secure the casters.





#### 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.

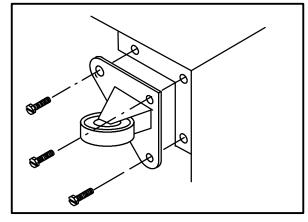


Figure 6

#### **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 leas to the bottom sections as described.
- 2. Place the upper section in position on top of the lower oven.
- Attach the stacking brackets using the re-3. maining 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.

- Secure the short legs to the bottom sections 1. 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.
- Attach the stacking brackets to the old style 5. oven with the 5/16" bolts and nuts provided in the kit.
- 6. Attach the flue connector.



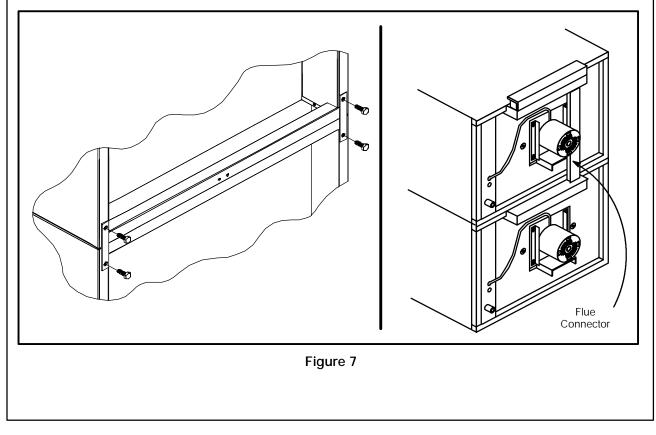
#### WARNING!!

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.

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



#### Single Speed Blower

ON MAN 2 1 OFF AUTO **BLOWER** COOIDOWN 3 LIGHT OFF OVEN READY 'en 4 5 50 40 35 WARNING REPLACE WITH 10 AMP TIME DELAY FUSES ZEPHAIRE Figure 8

THE INFORMATION CONTAINED IN THIS SEC-TION IS PROVIDED FOR THE USE OF QUALIFIED OPERATING PERSONNEL. QUALIFIED OPERAT-ING PERSONNEL ARE THOSE WHO HAVE CAREFULLY READ THE INFORMATION CON-TAINED IN THIS MANUAL, ARE FAMILIAR WITH THE FUNCTIONS OF THE OVEN AND/OR HAVE HAD PREVIOUS EXPERIENCE WITH THE OP-ERATION OF THE EQUIPMENT DESCRIBED. AD-HERENCE TO THE PROCEDURES RECOM-MENDED HEREIN WILL ASSURE THE ACHIEVEMENT OF OPTIMUM PERFORMANCE AND LONG, TROUBLE-FREE SERVICE.

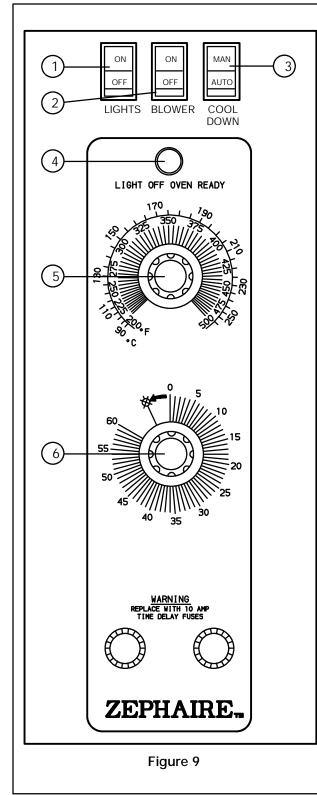
#### CONTROL DESCRIPTION

- 1. BLOWER ON/OFF SWITCH Controls the operation of the blower. If the blower switch is in the OFF position the oven will be turned off.
- COOL DOWN SWITCH When the switch is in the AUTO position, the oven can be used to cook. When the switch is in the MAN position, the oven is cooling down for the next bake.
- 3. OVEN READY LIGHT When lit indicates elements are heating. When the light goes out the oven has reached operating temperature.
- 4. THERMOSTAT Controls the temperature at which the oven will operate. Temperatures can range from 200-500\_F (93-260\_C).
- 5. COOK TIMER Used to time the length of the cooking operation. When the set time expires, a buzzer will sound.

- 1. Set the COOL DOWN switch (2) to the AUTO position. Turn the THERMOSTAT (4) to the desired operating temperature.
- 2. Set the BLOWER ON/OFF SWITCH (1) to the *ON* position. When the OVEN READY light (3) goes out, load the product and set the COOK TIMER (5).
- 3. When the timer sounds, remove the product. If the next product requires a lower operating temperature, then the cool down mode can be used. Turn the COOL DOWN SWITCH (2) to the MAN position. Make sure that the door is open.
- 4. Turn the oven off by setting the BLOWER ON/ OFF SWITCH (1) to the *OFF* position.

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#### Single Speed Blower with Cavity Lights

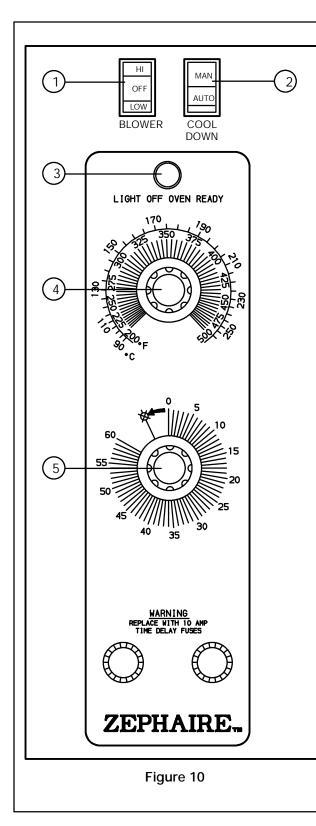


#### CONTROL DESCRIPTION

- 1. CAVITY LIGHTS ON/OFF Operates the oven cavity lights.
- BLOWER ON/OFF SWITCH Controls the operation of the blower. If the blower switch is in the OFF position the oven will be turned off.
- COOL DOWN SWITCH When the switch is in the AUTO position, the oven can be used to cook. When the switch is in the MAN position, the oven is cooling down for the next bake.
- 4. OVEN READY LIGHT When lit indicates elements are heating. When the light goes out the oven has reached operating temperature.
- 5. THERMOSTAT Controls the temperature at which the oven will operate. Temperatures can range from 200-500\_F (93-260\_C).
- 6. COOK TIMER Used to time the length of the cooking operation. When the set time expires, a buzzer will sound.

- 1. Set the COOL DOWN switch (3) to the AUTO position. Turn the THERMOSTAT (5) to the desired operating temperature.
- Set the BLOWER ON/OFF SWITCH (2) to the ON position. When the OVEN READY light (4) goes out, load the product and set the COOK TIMER (6).
- 3. When the timer sounds, remove the product. If the next product requires a lower operating temperature, then the cool down mode can be used. Turn the COOL DOWN SWITCH (3) to the MAN position. Make sure that the door is open.
- 4. Turn the oven off by setting the BLOWER ON/ OFF SWITCH (2) to the *OFF* position.

#### **Dual Speed Blower**

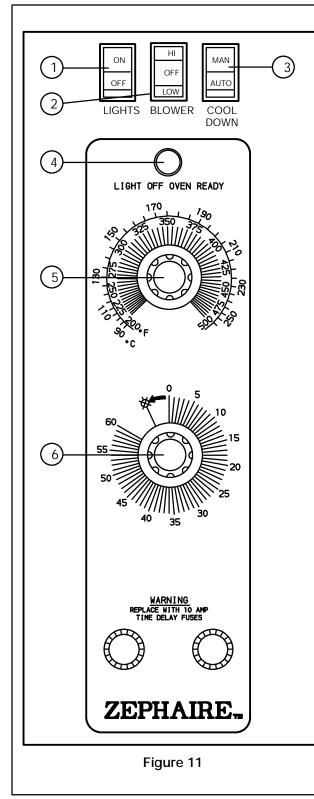


#### CONTROL DESCRIPTION

- BLOWER HI/LO/OFF SWITCH Controls the operation of the blower. If the blower switch is in the OFF position the oven will be turned off.
- COOL DOWN SWITCH When the switch is in the AUTO position, the oven can be used to cook. When the switch is in the MAN position, the oven is cooling down for the next bake.
- 3. OVEN READY LIGHT When lit indicates elements are heating. When the light goes out the oven has reached operating temperature.
- 4. THERMOSTAT Controls the temperature at which the oven will operate. Temperatures can range from 200-500\_F (93-260\_C).
- 5. COOK TIMER Used to time the length of the cooking operation. When the set time expires, a buzzer will sound.

- 1. Set the COOL DOWN switch (2) to the AUTO position. Turn the THERMOSTAT (4) to the desired operating temperature.
- Set the BLOWER SWITCH (1) to the *HI* position. When the OVEN READY light (3) goes out, load the product and set the COOK TIM-ER (5).
- 3. When the timer sounds, remove the product. If the next product requires a lower operating temperature, then the cool down mode can be used. Set the BLOWER SWITCH (1) to the *LO* position. Turn the COOL DOWN SWITCH (2) to the MAN position. Make sure that the door is open.
- 4. Turn the oven off by setting the BLOWER SWITCH (1) to the *OFF* position.

#### **Dual Speed Blower with Cavity Lights**



#### CONTROL DESCRIPTION

- 1. CAVITY LIGHTS ON/OFF Operates the oven cavity lights.
- BLOWER HI/LO/OFF SWITCH Controls the operation of the blower. If the blower switch is in the OFF position the oven will be turned off.
- COOL DOWN SWITCH When the switch is in the AUTO position, the oven can be used to cook. When the switch is in the MAN position, the oven is cooling down for the next bake.
- 4. OVEN READY LIGHT When lit indicates elements are heating. When the light goes out the oven has reached operating temperature.
- 5. THERMOSTAT Controls the temperature at which the oven will operate. Temperatures can range from 200-500\_F (93-260\_C).
- 6. COOK TIMER Used to time the length of the cooking operation. When the set time expires, a buzzer will sound.

- 1. Set the COOL DOWN switch (3) to the AUTO position. Turn the THERMOSTAT (5) to the desired operating temperature.
- Set the BLOWER SWITCH (2) to the *HI* position. When the OVEN READY light (4) goes out, load the product and set the COOK TIMER (6).
- 3. When the timer sounds, remove the product. If the next product requires a lower operating temperature, then the cool down mode can be used. Set the BLOWER SWITCH (2) to the *LO* position. Turn the COOL DOWN SWITCH (3) to the MAN position. Make sure that the door is open.
- 4. Turn the oven off by setting the BLOWER SWITCH (2) to the *OFF* position.

#### **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 (10\_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 (38\_C) above the cook temperature.

#### **Cook Temperatures**

Generally, cook temperatures should be 50\_F (10\_C) lower than deck or range oven recipes. Use this as a starting point and adjust the temperature as necessary. 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 10 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) Steamship Round (80 lb. quartered) Standing Rib Choice (20 lbs, trimmed, rare) Banquet Shell Steaks (10 oz. meat) Swiss Steak after Braising Baked Stuffed Pork Chop Boned Veal Roast (15 lbs.) Lamb Chops (small loin) Bacon (on racks in 18" x 26" pans)	400_F (205_C) 275_F (135_C) 235_F (115_C) 450_F (235_C) 275_F (135_C) 375_F (190_C) 300_F (150_C) 400_F (205_C) 400_F (205_C)	8-10 mins. 2 hrs 45 mins. 2 hrs 45 mins. 7-8 mins. 1 hr. 25-30 mins. 3 hrs. 10 mins. 7-8 mins. 5-7 mins.	10 2 5 5 5 2 5 10
<b>Poultry</b> Chicken Breast & Thigh Chicken Back & Wing Chicken (2 <sup>1</sup> / <sub>2</sub> lbs. quartered) Turkey Rolled (18 lb. rolls)	350_F (175_C) 350_F (175_C) 350_F (175_C) 310_F (155_C)	40 mins. 35 mins. 30 mins. 3 hrs 45 mins.	5 5 5 3
<b>Fish and Seafood</b> Halibut Steaks, Cod Fish (frozen 5 oz) Baked Stuffed Lobster (2 <sup>1</sup> / <sub>2</sub> lb.) Lobster Tails (frozen)	350_F (175_C) 400_F (205_C) 425_F (220_C)	20 mins. 10 mins. 9 mins.	5 3 5
<b>Cheese</b> Macaroni & Cheese Casserole Melted Cheese Sandwiches	350_F (175_C) 400_F (205_C)	30 mins. 8 mins.	5 10
Potatoes Idaho Potatoes (120 ct.) Oven Roasted Potatoes (sliced or diced)	400_F (205_C) 325_F (165_C)	50 mins. 10 mins.	5 5
Baked Goods Frozen Berry Pies (22 oz) Fresh Apple Pie (20 oz.) Pumpkin Pies (32 oz.) Fruit Crisp Bread (24 - 1 lb. loaves) Southern Corn Bread Baking Soda Biscuits Brown & Serve Rolls Sheet Cakes (5 lb. mixed batter per pan) Chocolate Cake Brownies	325_F (150_C) 350_F (175_C) 300_F (150_C) 300_F (150_C) 325_F (155_C) 375_F (190_C) 400_F (205_C) 350_F (175_C) 325_F (160_C) 325_F (160_C) 325_F (150_C)	35 mins. 25-30 mins. 30-50 mins. 25 mins. 30 mins. 15-20 mins. 6 mins. 15 mins. 16-18 mins. 20 mins. 15 mins.	5 (30 pies) 5 (30 pies) 5 (20 pies) 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 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

Stainless steel ovens may be kept clean and in good condition with a light oil.

- 1. Saturate a cloth, and wipe the oven when it is cold.
- 2. Dry the oven with a clean cloth.

On the stainless front or interiors, deposits of baked on splatter may be removed with any nontoxic industrial stainless steel cleaner. Heat tint and heavy discoloration may be removed with any non-toxic commercial oven cleaner.

Apply cleaners when the oven is cold. Always 1 rub with the grain of the metal.

Keep liquid away from the light sockets, temperature probes, heating elements, etc. Avoid spraying the oven's electrical connections, thermostat and light bulb receptacles.

The porcelain interior can be cleaned with any commercial oven cleaner. Be sure caustic cleaning compounds DO NOT come in contact with the aluminized steel panel directly behind the blower wheel.

- 1. Remove the racks and rack supports from the oven.
- 2. Soak the parts in a solution of ammonia and water.
- 3. Reinstall after cleaning.

#### **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.



### Troubleshooting Guide

Plug in electrical supply cord. Set the control panel to COOK or OVEN ON. Set to desired cook temperature.
Set the control panel to COOK or OVEN ON. Set to desired cook temperature.
Close doors.
Wait for oven to reach preheat temperature.
Plug in electrical supply cord. Reset the breaker. Close doors.
*

#### WARNING!!

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

### CUSTOMER INSERT WIRING DIAGRAM HERE