OWNER'S MANUAL INSTALLATION & OPERATION



WLEO SERIES ELECTRIC CONVECTION OVENS

MODELS WLEO

ML-136825

For additional information on Wolf Range or to locate an authorized parts and service provider in your area, visit our website at www.wolfrange.com

Installation, Operation and Care of WLEO SERIES ELECTRIC CONVECTION OVENS

KEEP THESE INSTRUCTIONS FOR FUTURE USE

Your Wolf Electric Convection Oven is produced with quality workmanship and material. Proper installation, usage and maintenance of your oven will result in many years of satisfactory performance.

The manufacturer suggests that you thoroughly read this entire manual and carefully follow all of the instructions provided.

GENERAL

The WLEO Series Electric Convection Ovens feature a 500°F thermostat, timer, porcelain interior and a two-speed, ½ HP blower motor as standard equipment. Ovens equipped with standard voltages are 208 or 240 V, 60 Hz, single- or three-phase. Ovens equipped for 480 V, 60 Hz, three-phase electrical specifications are optional.

The WLEO Series Oven is a single cavity oven furnished with five racks. Independently opening doors are standard. Oven lights with on-off switch are standard on all models.

An open stand with lower storage rack is available as an option.

Stacked ovens are furnished with either Stacking Kit 426983G3 (8" LEGS) or Stacking Kit 426984G3 (CASTERS) for mounting one oven on top of the other.

Additional racks are available as accessories.

Features of the models are shown below:

FEATURES & OPTIONS

Model	Oven Interior Depth	Oven Exterior Depth	Thermostat	Timer	with	Stack Kit with Casters *	with	with	Stand with Rack & Feet	Stand with Rack & Casters	
WLEO	26 ¹ / ₂ " (67.3 cm)	41 ¹ / ₂ " (105.4 cm)	Solid State	1 Hr. Dial	Opt.	Opt.	Std.	Opt.	Opt.	Opt.	

^{*} With Two Stacked Ovens Only.

INSTALLATION

UNPACKING

Immediately after unpacking the oven, check for possible shipping damage. If the oven is found to be damaged, save the packaging material and contact the carrier within 15 days of delivery.

Prior to installation, verify that the electrical service agrees with the specifications on the oven data plate, located on the inside of the top front cover.

Do not use the doors or their handles to lift the oven.

LOCATION

The installation location must allow adequate clearances for servicing and proper operation. There must be 18" (457 mm) of clearance on the right side of the oven from any open flame.

INSTALLATION CODES AND STANDARDS

In the United States, install the oven in accordance with:

- State and local codes.
- 2. National Electrical Code, ANSI/NFPA-70 (latest edition). Copies may be obtained from The National Fire Protection Association, Batterymarch Park, Quincy, MA 02169-7471.
- 3. NFPA Standard #96, *Vapor Removal from Cooking Equipment* (latest edition). Copies may be obtained from The National Fire Protection Association, Batterymarch Park, Quincy, MA 02169-7471.

In Canada:

- 1. Local codes.
- CSA C22.1 Canadian Electrical Code (latest edition).
- 3. CSA C22.2 No. 109 Commercial Cooking Equipment (latest edition).

The above are available from the Canadian Standard Association, 5060 Spectrum Way, Suite 100, Mississauga, Ontario, Canada L4W 5N6.

INSTALLING BASIC OVEN

The oven must be installed on legs or mounted on a modular stand. Installations on concrete bases or other supports restricting air circulation underneath the oven is not advisable and may void the warranty. If using the modular stand, set the oven on the stand after unpacking.

Assembling the Legs to the Oven

The legs must be installed on the bottom of the oven. Gently position the oven on its left side, taking care not to scratch or damage the oven.

Attach each of the four leg assemblies to the bottom of the oven with the 24 bolts and lockwashers (six per leg). Carefully raise the oven to its normal position.

Ovens Mounted on Casters

If the oven is to be installed on casters, assemble the casters to the legs provided. Then attach the caster-leg units to the oven at each corner using the 24 bolts and lockwashers (six bolts and lockwashers per leg). Place the locking casters on the front legs and nonlocking casters on the rear legs.

ASSEMBLING THE STAND TO THE OVEN

Attach each of the four leg assemblies to the bottom of the oven with the 24 bolts and lockwashers (six per leg). Carefully raise the oven to its normal position. Attach the undershelf to the legs with eight bolts and lockwashers (two per leg).

Install the rack guides into the undershelf at desired locations (for pan or flat rack), then attach the rack supports to the top end of the rack guides. Attach rack supports to the leg assembly by removing one middle bolt and reattaching back through the end holes in the rack support (Fig. 2).

ASSEMBLING STACKED OVENS

Unpack the ovens and the stack kit. Position the oven to be used as the bottom oven on its left side for access to the oven bottom, taking care not to scratch or damage it.

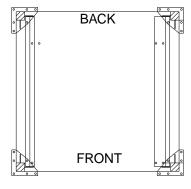
Attach the four leg assemblies with the 24 bolts and lockwashers (six per leg).

Place the lower oven (with legs) on the floor and remove two ⁷/₁₆" (11 mm) diameter knockouts on each side of the top cover.

Install two locating studs to the bottom of the top oven per stacking kit instructions.

Move the oven with legs to the installed position. Place the upper oven on top of the lower oven using the locating studs.

Remove the optional rear panel, if provided, from the TOP oven. Install the Stacking Flue (Fig. 3) with the four screws provided. Replace the top oven rear panel, if provided.



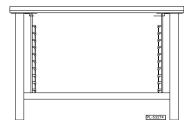


Fig. 2

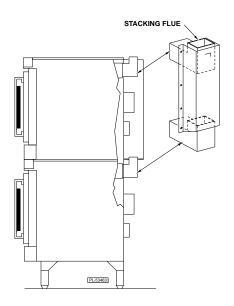


Fig. 3

LEVELING

Make sure that the oven racks are level in the final installed position. If the oven is installed on legs, turn the adjustable feet in or out to level the oven front-to-back and side-to-side. If the oven is installed on casters, loosen set screws and turn casters in or out to level the oven front-to-back and side-to-side. Retighten set screws after leveling.

ELECTRICAL CONNECTIONS

A WARNING Electrical and grounding connections must comply with the applicable portions of the National Electrical Code and/or other local electrical codes.

AWARNING Disconnect the electrical power to the machine and follow lockout / tagout procedures.

Remove the wiring compartment cover on the front of the oven. Remove the appropriate knockout on the bottom of the oven and attach the power supply conduit to the bottom of the oven.

Comply with the appropriate wiring diagram (located inside the right side panel) when making connections to the electrical supply lines.

Replace the wiring compartment cover and right side panel. Turn on the power supply.

ELECTRICAL DATA

208-240 V					480 V		NOMINAL AMPERES PER LINE WIRE											
	TOTAL	3-PHASE LOADING 3-PHASE LOADING			ADING	3-PHASE							1-PH	IASE				
	KW	KW PER PHASE		KW PER PHASE		208 V			240 V		480 V							
		L1-L2	L2-L3	L1-L3	L1-L2	L2-L3	L1-L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	208 V	240 V
Single Oven	12.5	4	4	4.5	4	4	4.5	35	33	35	33	29	33	14.4	15.3	15.3	60	52
Stacked Oven	25	8	8	9	8	8	9	70	66	70	66	58	66	28.8	30.6	30.6	120	104

ELECTRICAL CONNECTIONS (Stacked Ovens)

A WARNING Electrical and grounding connections must comply with the applicable portions of the National Electrical Code and/or other local electrical codes.

AWARNING Disconnect the electrical power to the machine and follow lockout / tagout procedures.

Make sure that the electrical power supply agrees with the specifications on the oven data plate, the wiring diagram on the oven and Electrical Data, page 5.

- 1. Wires to connect both ovens are provided with each oven. Carefully route these leads from the top oven through the bushing (supplied with the stacking kit) through the electrical access knockout holes common to both ovens.
- 2. Connect wires X, Y and Z from the upper oven to the lower oven per the wiring diagram using wire nuts provided. Attach the power supply conduit to the bottom of the lower oven. Connect the power supply leads to the line side of the terminal block on the bottom oven.
- 3. Finally, inspect and check all wiring and terminal connections for tightness or pinch points (cover on oven frame).
- 4. Refer to reference drawing 426986 supplied with the stacking kit for electrical connection instructions.
- 5. Refer to instructions supplied with the stacking kit for marking the combined electrical load information to the electrical data plate of the bottom oven.

OPERATION

A WARNING The oven and its parts are hot. Use care when operating, cleaning or servicing the oven.

CONTROLS — MODEL WLEO



PL-53495

MOISTURE VENT DAMPER - Open the damper to exhaust excess moisture. Close the damper

when cooking dry products. Select settings between OPEN and

CLOSED for optimum performance.

MASTER SWITCH – ON - Turns oven control circuits on.

OFF - Turns oven control circuits off.

- OVEN COOL - Allows the fan motor to run with the doors ajar to

speed oven cooling.

ON LIGHT (Amber) – Lit when MASTER SWITCH is turned to ON.

HEAT LIGHT (White) — Comes on and goes off when the heating elements cycle on and off.

TEMPERATURE – Controls oven temperature.

TIMER – Use to set the cooking time. Alarm sounds continuously when time

has elapsed to 0. Turn the timer OFF to silence the alarm. The timer does not turn the oven off. Keep timer set to OFF when the oven is

not in use.

FAN SPEED – Adjust air velocity in the oven cavity.

HI - Normal operating speed.

LOW - Use this setting when cooking a delicate product like

meringue, which could blow around in the oven.

LIGHTS – ON - Turns the interior lights on.

OFF - Turns the interior lights off.

BEFORE FIRST USE

Before using the oven for the first time, it must be burned off to release any odors that might result from heating the new surfaces in the chamber.

- 1. Using a clean damp cloth, wipe the inside of the oven, including the racks.
- 2. Close the oven doors, turn the MASTER SWITCH to ON, turn the Thermostat to 300°F (149°C) and allow the oven to cycle for 6 to 8 hours before turning the MASTER SWITCH to OFF.

USING MODEL WLEO

Preheating

- 1. Turn MASTER SWITCH to ON. Amber ON light will come on, indicating that power to oven is on.
- 2. Set Thermostat as desired. Refer to COOKING GUIDELINES for suggested temperatures and times for various products.
- 3. Prepare product and place in suitable pans. When white HEAT light goes off, oven has reached desired preheat temperature.

Cooking

- 1. Open doors and load the product into the oven. Place pans in the center of the racks. Close doors.
- 2. Set the Timer. After the preset time lapses, turn Timer to OFF position to stop alarm.
- 3. When product is done, open doors and carefully remove cooked product from the oven. Care should be taken when wiping up any spills, as oven is still hot.

End of Day

- 1. Turn Thermostat to OFF.
- 2. Turn MASTER SWITCH to OVEN COOL. Leave doors open while the fan is on to cool the oven.
- 3. When oven has cooled sufficiently, turn MASTER SWITCH to OFF and clean the oven.

PROPER UTENSILS

The use of proper utensils can enhance oven operation. Medium and lightweight pans allow the product to warm faster. Roast meats in shallow pans deep enough to hold all juices yet allow free air circulation.

OPERATING HINTS

When using the convection oven for the first time with a particular food, check the degree of doneness periodically before the suggested time has elapsed. This will ensure the desired doneness is achieved.

Record your temperature and time settings for various products. The convection oven can provide consistent and repeatable results.

The convection oven is faster than conventional deck-type ovens; temperature settings are lower and cook times are shorter. Since recipes and foods are subject to many variations and tastes, the guidelines regarding Times and Temperatures in this manual are SUGGESTIONS ONLY. Experiment with your food products to determine the cooking temperatures and times that give you the best results.

NOTE: For a more even bake, place the pans horizontally in the center of the oven rack and decrease the suggested cooking temperature by 50°F (10°C).

COOKING GUIDELINES

The information in the Cooking Guidelines chart is suggested only. Cooking times for various products may be different depending on the brand, consistency and the chef's preferences for taste and presentation. The times below may require adjustments. Note the times and temperatures of your preferred results for future use. The preheating time for all of the following is 15 minutes.

Product	Amount lbs. (kg)	Cooking Temp. °F (°C)	Cooking Time Hours	Max. Internal Cook Temp. °F (°C)		
		ì		` '		
Prime Rib	20 (9.06)	225 (107)	5	140 (60)		
Rib Eye Boneless	12 (5.43)	225 (107)	3	140 (60)		
Top Round	20 (9.06)	225 (107)	5	140 (60)		
Steamship Round	20 (9.06)	225 (107)	7	140 (60)		
Bottom Round	20 (9.06)	225 (107)	5	140 (60)		
Boneless Strip Loin	12 (5.43)	225 (107)	3	140 (60)		
Whole Tenderloin	6 (2.71)	225 (107)	2	140 (60)		
Top Sirloin Butt	14 (6.34)	225 (107)	3	140 (60)		
Beef Short Ribs	10 (4.53)	225 (107)	4	165 (74)		
Cube Steaks	10 (5.43)	225 (107)	3	180 (82)		
Beef Back Ribs	30 (13.6)	225 (107)	5	175 (79)		
Beef Stew	10 (5.43)	225 (107)	4	175 (79)		
Corned Beef	12 (5.43)	250 (121)	4	165 (74)		
Fresh Ham	12 (5.43)	250 (121)	6	165 (74)		
Cooked Cured Ham	12 (5.43)	250 (121)	4	135 (57)		
Pork Back Ribs	10 (4.53)	250 (121)	5	175 (79)		
Pork Spare Ribs	30 (13.6)	250 (121)	5	175 (79)		
Fresh Sausages	10 (4.53)	225 (107)	2	175 (79)		
Pre-Cooked Sausage	10 (4.53)	250 (121)	13/4	160 (71)		
Roast Suckling Pig	30 (13.6)	250 (121)	6	170 (77)		
Bacon		350 (177)	40 min.	N/A		
Roasted Chicken	10 (4.56)	350 (177)	45 min.	165 (74)		
Chicken Pieces (per tray)	10 (4.56)	250 (121)	21/2	170 (77)		
Whole Chickens						
(per chicken)	3.25 (1.47)	250 (121)	21/2	170 (77)		
Whole Turkeys	20 (9.06)	230 (110)	61/2	170 (77)		
Bone In Turkey Breast	10 (4.53)	250 (121)	5	160 (71)		
Roast Duckling (per duck)	4 (1.81)	350 (177)	11/2	170 (77)		
Rack of Lamb per tray	15 racks	250 (121)	31/2	160 (71)		
Lamb Shanks, Braised		250 (121)	4	180 (82)		
Fish Filets	4-6 oz. (23g)	225 (107)	40 min.	160 (71)		
	1/1 Gastronome					
Clear Soups	or 12x20x4" Steam Pan	225 (107)	3	175 (79)		
Frozen Pizza	(2) 18" Pies	350 (177)	15 min.	175 (79)		
Rice	1 Qt. dry	250 (121)	2	160 (171)		
Baked Potatoes	90 CT.	350 (177)	1	200 (93)		

STANDARD COOKING TIME CHART

Product	Amount	Temp.	Time	
Frozen Croissant Dough	1.75 oz.	350°F (177°C)	25 Min	
Cinnamon Croissant	1.75 oz.	350°F (177°C)	35 Min.	
Small Bread Loaves	1 Tray	350°F (177°C)	30 Min.	
Large Bread Loaves	1.5 lbs.	350°F (177°C)	60 Min.	
Sheet Cake	(1) 18x26" Tray	300°F (149°C)	25 Min.	
Scone Mix	1 Tray	350°F (177°C)	30 Min.	
Muffin Mix	1 Tray	350°F (177°C)	30 Min.	
Kaiser Rolls	1 Tray	350°F (177°C)	16 Min.	
Italian Bread	1 Tray	350°F (177°C)	40 Min.	
Danish Rounds*	1 Tray	350°F (177°C)	30 Min.	
Cream Cake*	1 Tray	350°F (177°C)	60 Min.	
Cookies	1 Tray	325°F (163°C)	16 Min.	

^{*}The maximum internal cooking temperature should be 190°F (88°C).

POWER OUTAGE

In case of a power outage, the oven will automatically shut down. When power is restored to the lines, the oven will resume its normal operation. However, if the oven is to be left unattended during a power outage, push the MASTER SWITCH to the OFF position. When power is restored to the lines, push MASTER SWITCH to the ON position, wait for the oven to preheat, then resume normal cooking operations.

CLEANING

AWARNING Disconnect the electrical power to the machine and follow lockout / tagout procedures.

- Clean outside of the oven daily by wiping with a clean, damp cloth.
- Clean porcelain oven interior daily with soap or detergent and water. Rinse thoroughly and wipe dry with a soft, clean cloth.

MAINTENANCE

A WARNING The oven and its parts are hot. Use care when operating, cleaning or servicing the oven.

AWARNING Disconnect the electrical power to the machine and follow lockout / tagout procedures.

The fan motor comes with sealed bearings and requires no lubrication.

Annually check the vent, when cool, to be sure it is free of obstructions.

REPLACING LAMPS

- 1. Allow oven to cool.
- 2. Remove all racks by pulling forward, lifting up and out.
- 3. Unscrew glass dome(s) from light body.
- 4. Replace the bulb(s).
- 5. Reassemble glass dome(s) and racks by reversing the disassembly procedure.

SERVICE AND PARTS INFORMATION

To obtain service and parts information concerning your WLEO Oven, contact the Wolf Range Service Depot in your area.