

INSTALLATION & OPERATING INSTRUCTIONS

for

IMPINGER® II CONVEYOR OVENS ADVANTAGE CONVEYOR OVENS MODEL SERIES 1100



TO BE SERVICED ONLY BY AUTHORIZED PERSONS



0063AQ4580



IMPORTANT WARNING AND SAFETY INFORMATION

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

DO NOT SPRAY AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILE IT IS IN OPERATION.

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

- Obtain from your local gas provider and post in a prominent location instructions to be followed in the event gas odors are detected.
- It is required that the oven be placed under a ventilation hood to provide for adequate air supply and ventilation.
- Minimum clearances must be maintained from all walls and combustible materials. See spacing instruction on Page 6.
- Keep the oven free and clear of combustible material.
- Adequate clearance for air openings to the combustion control chamber on the right side of the oven is required.
- Do not obstruct the ventilation holes in the control panels, as these provide the combustion air for the burner and cooling air for the controls.
- The oven is to be operated only on the type of gas and/or electricity as shown on the specification plate.
- The power burner will not operate and gas will not flow through the burner without electrical power.
- This manual should be retained for future reference.
- The electrical wiring diagram is located under the control box covers.

PURCHASER’S RESPONSIBILITY

It is the responsibility of the purchaser:

1. To see that the gas and electric services for the oven are installed on site in accordance with the manufacturers specification.
2. To unload, uncrate, and install the oven in its proper location; in accordance with this installation / operation manual.
3. To see that the gas and electric services are connected properly by a qualified installer of your choice. *For installation in the State of Massachusetts: Installation of this oven must be performed by a licensed plumber or gas fitter.* All such connections must be in accordance with applicable code requirements. Refer to Page 10 for specific code references.
4. To arrange for inspection and operation check-out by an Authorized Service Technician as described below:

Do not attempt to operate the oven until connection of utility service has been fully inspected by an **Authorized Service Technician** or a **Lincoln Foodservice Products, LLC Service Representative**. This service is required by Lincoln Foodservice Products, LLC in order to assist the purchaser in proper start-up of the oven on site. Please note the specific details on the Warranty and make certain that service connections are made to proper utility services.

The warranty shall not apply if the oven(s) are started up and operated prior to the utilities and oven being inspected and check out made by an Authorized Service Technician or a Lincoln Foodservice Products, LLC Service Representative.

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UTILITY SPECIFICATIONS REQUIRED – ELECTRIC

Model	Energy	Power	Voltage	Current	Phase	Hz	Recommended Electrical Specification	Recommended Circuit Breaker	Supply Wire Size 90° C	Agency Listings
1130/60	Electric	10kW	120/208 VAC	48 Amps	1	60 Hz	4 Wires, 2 Pole + N + G	2 Pole, 50 Amp	6 AWG	UL, CSA, NSF
1131/61	Electric	10kW	120/240 VAC	42 Amps	1	60 Hz	4 Wires, 2 Pole + N + G	2 Pole, 50 Amp	8 AWG	UL, CSA, NSF
1132/62	Electric	10kW	120/208 VAC	28 Amps	3	60 Hz	5 Wires, 3 Pole + N + G	3 Pole, 30 Amp	10 AWG	UL, CSA, NSF
1133/63	Electric	10kW	120/240 VAC	25 Amps	3	60 Hz	5 Wires, 3 Pole + N + G	3 Pole, 30 Amp	10 AWG	UL, CSA, NSF
1130-080-A	Electric	10kW	120/208 VAC	48 Amps	1	60 Hz	4 Wires, 2 Pole + N + G	2 Pole, 50 Amp	6 AWG	UL, CSA, NSF
1131/61-080-A	Electric	10kW	120/240 VAC	42 Amps	1	60 Hz	4 Wires, 2 Pole + N + G	2 Pole, 50 Amp	8 AWG	UL, CSA, NSF
1132/62-080-A	Electric	10kW	120/208 VAC	28 Amps	3	60 Hz	5 Wires, 3 Pole + N + G	3 Pole, 30 Amp	10 AWG	UL, CSA, NSF
1133-080-A	Electric	10kW	120/240 VAC	25 Amps	3	60 Hz	5 Wires, 3 Pole + N + G	3 Pole, 30 Amp	10 AWG	UL, CSA, NSF
1134	Electric	10kW	380Y/208 VAC	15 Amps	3	50 Hz	5 Wires, 3 Pole + N + G		5 x 2.5mm ²	NSF
1135	Electric	10kW	415Y/240 VAC	14 Amps	3	50 Hz	5 Wires, 3 Pole + N + G		5 x 2.5mm ²	NSF
1136	Electric	10kW	240 VAC	42 Amps	1	50 Hz	3 Wires, 1 Pole + N + G		3 x 10.0mm ²	NSF
1151	Electric	10kW	200VAC	29 Amps	3	60 Hz	4 Wires, 3 Pole + G		3 x 4.0mm ²	NSF
*1164-XXX-E	Electric	10kW	400/230 VAC	15 Amps	3	50 Hz	5 Wires, 3 Pole + N + G	3 Pole, 32 Amp	5 x 2.5mm ²	CE, NSF
1130-000-A	Electric	10kW	208 VAC	48 Amps	1	60 Hz	3 Wires, 2 Pole + G	2 Pole, 50 Amp	6 AWG	UL, CSA, NSF
1131-000-A	Electric	10kW	240 VAC	42 Amps	1	60 Hz	3 Wires, 2 Pole + G	2 Pole, 50 Amp	8 AWG	UL, CSA, NSF
1132-000-A	Electric	10kW	208 VAC	28 Amps	3	60 Hz	4 Wires, 3 Pole + G	3 Pole, 30 Amp	10 AWG	UL, CSA, NSF
1133-000-A	Electric	10kW	240 VAC	25 Amps	3	60 Hz	4 Wires, 3 Pole + G	3 Pole, 30 Amp	10 AWG	UL, CSA, NSF
1130-08H-A	Electric	12kW	208 VAC	63 Amps	1	60 Hz	3 Wires, 2 Pole + G	2 Pole, 90 Amp	4 AWG	UL, cUL, NSF
1131-08H-A	Electric	12kW	240 VAC	54 Amps	1	60 Hz	3 Wires, 2 Pole + G	2 Pole, 50 Amp	6 AWG	UL, cUL, NSF
1132-08H-A	Electric	12kW	208 VAC	36 Amps	3	60 Hz	4 Wires, 3 Pole + G	3 Pole, 70 Amp	8 AWG	UL, cUL, NSF
1133-08H-A	Electric	12kW	240 VAC	31 Amps	3	60 Hz	4 Wires, 3 Pole + G	3 Pole, 40 Amp	10 AWG	UL, cUL, NSF

* REF MODEL NUMBER KEY

UTILITY SPECIFICATIONS REQUIRED – GAS

Model	Energy	Power	Voltage	Current	Phase	Hz	Recommended Electrical Specification	Recommended Circuit Breaker	Gas	Agency Listings
1116	Nat. Gas	40,000 BTU	120 VAC	7 Amps	1	60 Hz	3 Wires, 1 Pole + N + G	1 Pole, 15 Amp	40,000 BTU at 7 inches, H ₂ O column**	CSA, NSF
1117	L.P. Gas	40,000 BTU	120 VAC	7 Amps	1	60 Hz	3 Wires, 1 Pole + N + G	1 Pole, 15 Amp	40,000 BTU at 11 inches, H ₂ O column**	CSA, NSF
1154	Nat. Gas	45 MJ	240 VAC	2 Amps	1	50 Hz	3 Wires, 1 Pole + N + G		45 MJ/HR at 1.7 kPa, H ₂ O column**	AGA*, NSF
1155	L.P. Gas	45 MJ	240 VAC	2 Amps	1	50 Hz	3 Wires, 1 Pole + N + G		45 MJ/HR at 2.73 kPa, H ₂ O column**	AGA*, NSF
1156	Town	45 MJ	240 VAC	2 Amps	1	50 Hz	3 Wires, 1 Pole + N + G		45 MJ/HR at 3.6 kPa, H ₂ O column**	AGA*, NSF
1157	Nat. Gas	40,000 BTU	220/240 VAC	2 Amps	1	50 Hz	3 Wires, 1 Pole + N + G		40,000 BTU at 7 inches, H ₂ O column**	NSF
1158	L.P. Gas	40,000 BTU	220/240 VAC	2 Amps	1	50 Hz	3 Wires, 1 Pole + N + G		40,000 BTU at 11 inches, H ₂ O column**	NSF
*1154-XXX-E	Nat. Gas	12kW	230 VAC	2 Amps	1	50 Hz	3 Wires, 1 Pole + N + G	1 Pole, 16 Amp	12 kW/HR at 17.4 mB, H ₂ O column**	CE, NSF
*1155-XXX-E	L.P. Gas	12kW	230 VAC	2 Amps	1	50 Hz	3 Wires, 1 Pole + N + G	1 Pole, 16 Amp	12 kW/HR at 27.4 mB, H ₂ O column**	CE, NSF
1116-000-A	Nat. Gas	40,000 BTU	120 VAC	7 Amps	1	60 Hz	3 Wires, 1 Pole + N + G	1 Pole, 15 Amp	40,000 BTU at 7 inches, H ₂ O column**	CSA, NSF
1117-000-A	L.P. Gas	40,000 BTU	120 VAC	7 Amps	1	60 Hz	3 Wires, 1 Pole + N + G	1 Pole, 15 Amp	40,000 BTU at 11 inches, H ₂ O column**	CSA, NSF
1116-080-A	Nat. Gas	40,000 BTU	120 VAC	7 Amps	1	60 Hz	3 Wires, 1 Pole + N + G	1 Pole, 15 Amp	40,000 BTU at 7 inches, H ₂ O column**	CSA, NSF
1117-080-A	L.P. Gas	40,000 BTU	120 VAC	7 Amps	1	60 Hz	3 Wires, 1 Pole + N + G	1 Pole, 15 Amp	40,000 BTU at 11 inches, H ₂ O column**	CSA, NSF
1178-080-A	Nat. Gas	40,000 BTU	120 VAC	7 Amps	1	60 Hz	3 Wires, 1 Pole + N + G	1 Pole, 15 Amp	40,000 BTU at 7 inches, H ₂ O column**	CSA, NSF

* AGA – Australia Gas Association (See 1154 & 1155 above)

Inches of Water Column	KPa	m-Bar	Millimeters of Water Column
3.5	0.87	8.70	88.9
4.5	1.12	11.2	114.3
7	1.74	17.40	177.8
10	2.48	24.87	254.0
10.5	2.61	26.11	266.7
11	2.73	27.36	279.4
14	3.48	34.81	355.6
14.5	3.61	36.05	368.3

** NOTE: For proper operation, the gas valve requires a nominal inlet pressure of 7 inches of H₂O for natural gas and 11 inches of H₂O column for L.P. gas. A minimum inlet pressure of 1.0 inch of H₂O column above the manifold setting (NAT. manifold 3.5" H₂O, L.P. manifold 10" H₂O) must be maintained with no pressure drop from the no load to full load condition. The maximum inlet pressure must be maintained at or below ½ PSIG (14.5 inches H₂O column). Refer to the chart on the left for pressure conversions.

Electrical Supply for Australia:

Single Phase: 240 VAC, 50 Hz / 20 Amp; one neutral & one earth/ground.
 Three Phase: 240/415 VAC / 20 Amp; three active, one neutral & one earth/ground.

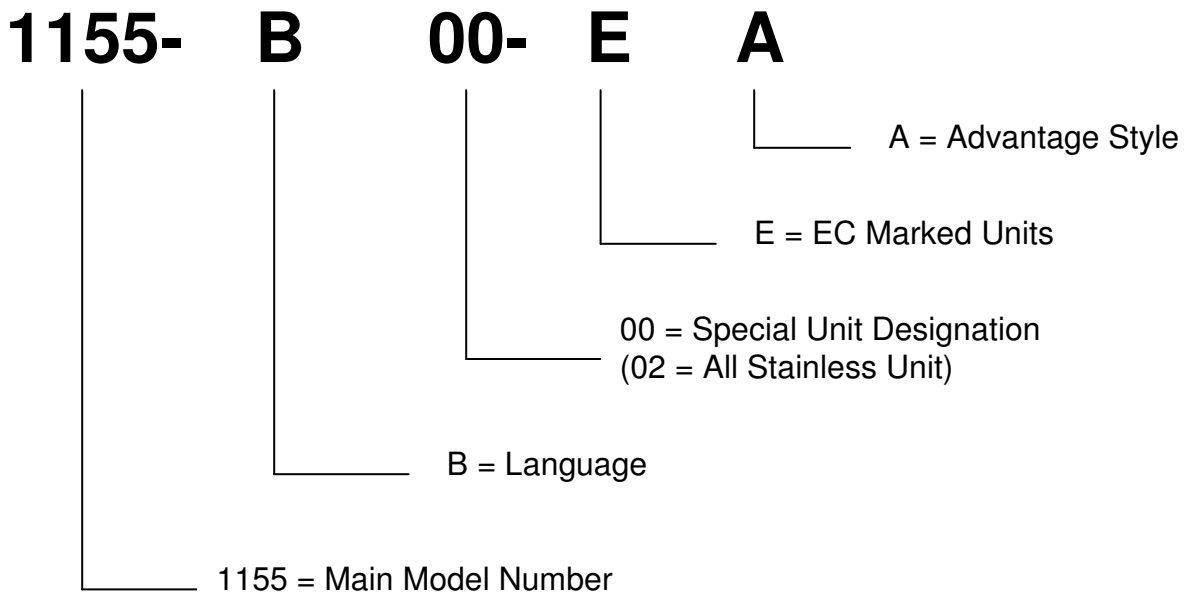
All ovens require separate service and dedicated neutral.

NOTE: Do not install the (these) oven(s) in any area with an ambient temperature in excess of 95°F / 35°C. Doing so will cause damage to the unit.

MODEL NUMBER KEY

<u>COUNTRY</u>	<u>LANGUAGE</u>	<u>CODE</u>	<u>NOT USED</u>
1. France	French	B	A
2. Germany	German	C	I
3. Italy	Italian	D	O
4. Spain	Spanish	E	Q
5. United Kingdom	English	F	
6. Luxembourg	French	B	
7. Portugal	Portuguese	H	
8. Denmark	Danish	J	
9. Belgium	Dutch / French	K	
10. Netherlands	Dutch	L	
11. Ireland	English	F	
12. Greece	Greek	M	
13. Austria	German	C	
14. Finland	Finnish	N	
15. Norway	Norwegian	P	
16. Sweden	Swedish	R	

EXAMPLE: 1433-B00-EA



NOTE: Date of manufacture is stamped on the rating plate of each oven at the end of the serial number.

Example: XXX...01-96

SPACING

The oven must have 6 inches (152 mm) of clearance from combustible surfaces. In case other equipment is located on the right side of oven, a minimum clearance of 24 inches (609 mm) is required from that equipment.

FOR ALL OVENS: A 24-inch (609 mm) clearance at the rear of the oven must be obtainable for service access.
FOR IMPINGER® II OVENS: A permanently installed (unmovable) oven requires a minimum of 4 feet clearance on the right hand side to allow for conveyor removal, cleaning, and servicing.

NOTE: Do not install this (these) oven(s) in any area with an ambient temperature in excess of 95° F / 35° C. Doing so will cause damage to the unit.



CAUTION: Oven must be operated on approved basis only.

VENTILATION

A VENT IS REQUIRED: Local codes prevail. These are the “authority having jurisdiction” as stated by the NATIONAL FIRE PROTECTION ASSOCIATION, INC. in NFPA 96 latest edition. In addition, to be in compliance with the NFPA 54 Section 10.3.5.2, this unit must be installed with a ventilation hood interlock that prevents the unit from operating when the ventilation hood is off. For further ventilation information, see below.

VENTILATION GUIDELINES

A ventilation hood is required to remove heat and cooking odors. For gas ovens, a ventilation hood is also required to remove the products of combustion. The hood and HVAC installation must meet local codes to gain approval by the authority having jurisdiction. Requirements may vary throughout the country depending on the location by city, county, and state. Obtain information from the authority having jurisdiction to determine the requirements for your installation. Obtain information and review copies of codes or documents that will be used to inspect and approve your installation. Your ventilation hood supplier and HVAC contractor should be contacted to provide guidance. A properly engineered and installed ventilation hood and HVAC system will expedite approval and reduce oven maintenance costs. Proper ventilation is the oven owner’s responsibility.

The ventilation hood must operate in harmony with the building HVAC system. It typically requires between 750 and 2500 CFM exhaust. (The “Efficiency” of various hood designs makes it necessary to specify such a wide range of ventilator CFM.) Make up air must be supplied by either a hood design or the HVAC system. This will vary with hoods from various manufacturers.

CAUTION: Prevent airflow through the cooking tunnel. Air must NOT be directed onto the oven front or at side of cooking area or rear of oven.

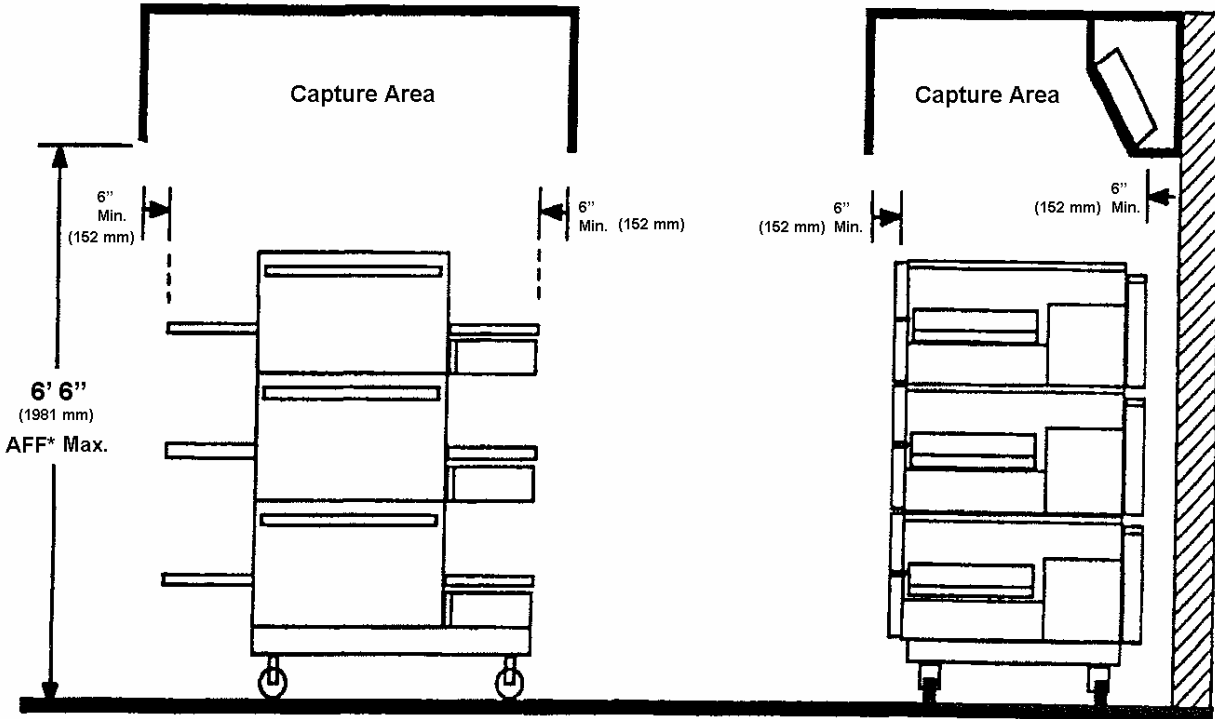
Performance will be evaluated during Start-up Checkout by conducting a smoke candle test. The hood must capture all smoke from the oven. This is required to assure proper performance of the oven and to eliminate additional service calls that occur when ambient temperatures are too high. In all cases, the ambient temperature around the oven must be less than 95° F / 35° C when the oven is operating. In certain localities, other chemical or gaseous methods of detecting adequate capture will be the requirement to meet the local code authority.

The drawing shown on page 7 is a typical installation and is intended to be a guideline. It is not a rigid specification. Hood dimensions and the positioning of the hood over the oven will vary with hood manufacturers.

NOTE: Lincoln can provide oven spec sheets that show the dimensions of the oven, KW or BTU ratings and other information that will be useful to both the ventilation hood supplier and the HVAC contractor.

IN AUSTRALIA: Refer to Standard AS 5601. This standard specifies the requirements for piping, flueing, ventilation and appliance installation associated with use of or intended use of fuel gases. The requirements of AS 5601 are to be used in conjunction with, but do not take precedence over, any statutory regulations that may apply in any area.

LINCOLN IMPINGER® • 1100 SERIES TRIPLE DECK, DOUBLE DECK OR SINGLE UNIT CANOPY VENTILATION RECOMMENDATIONS



* AFF = Above Finished Floor

SMOKE CANDLE TEST – VENTILATION SYSTEM VERIFICATION

OVEN SET-UP FOR THIS TEST:

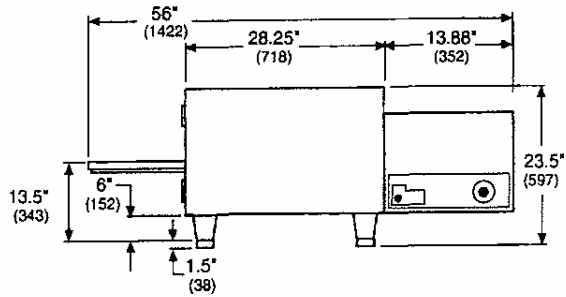
1. This test is to be done on the bottom oven of a multiple oven system, or a single oven.
2. The conveyor must be off.
3. The oven temperature must be set and operating at 550°F/288°C.

TEST PROCEDURE:

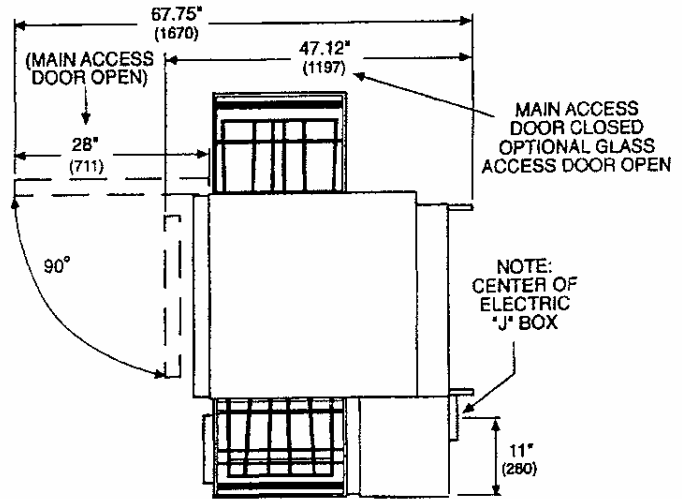
Note: Use Lincoln Smoke Candle #369361 (in Australia, an alternate method of coloring the air may be used).

1. Wear heat resistant gloves to prevent burns to your hands.
2. Put the smoke candle in a cake pan approximately 8 inches (200 mm) x 8 inches (200 mm) x 2 inches (50 mm) deep or equivalent.
3. Open the optional access window in the oven door, the oven door, or insert candle through conveyor opening.
4. Light the fuse of the smoke candle and immediately put the pan and candle into the center of the oven cavity, on the conveyor belt. (Close the access window or door.)
5. Observe the smoke pattern coming out of the oven openings and the collection of this smoke by the ventilation system.
6. **The ventilation system must capture all the smoke from the oven.**

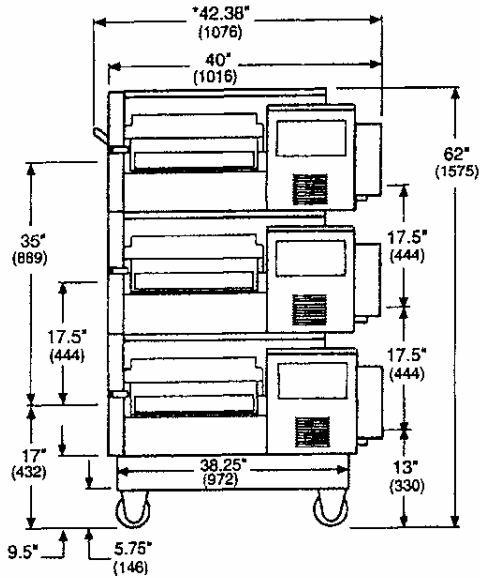
EXTERIOR DIMENSIONS IMPINGER® II OVEN MODELS



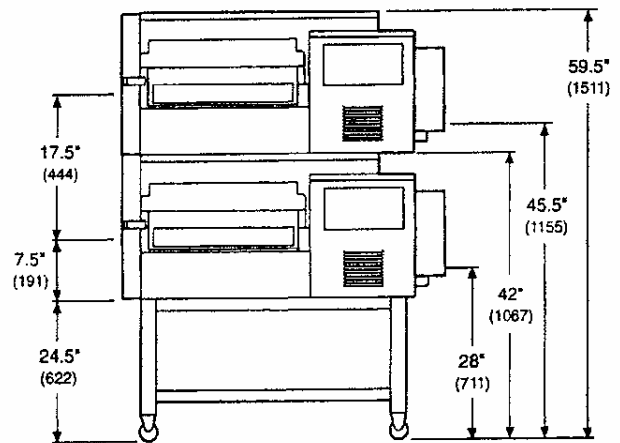
IMPINGER® II Counter Mount Front View
Shown with #1122 Adjustable Bullet Feet



IMPINGER® II Top View



1124 Stand/Triple-Stacked View



1120 Stand/Single or Double-Stacked View

RIGHT SIDE VIEWS OF STACKED OVENS
NOTE: All dimensions shown in () = mm

BODY: Stainless steel. Easy open front for simple cleaning.

POWER: Electric, or Gas and Electric

CONVEYOR: Stainless steel construction with flexible stainless steel belt, travel distances of 52 inches (1320 mm) with 24 inches (610 mm) in the baking area. Conveyor belt width is 18 inches (460 mm). Speed range 50 seconds – 30 minutes.

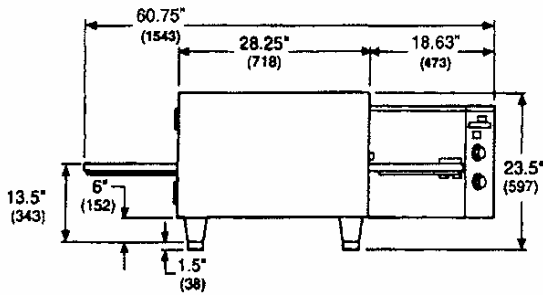
DB LEVEL: ≤ 70dba

OPERATING

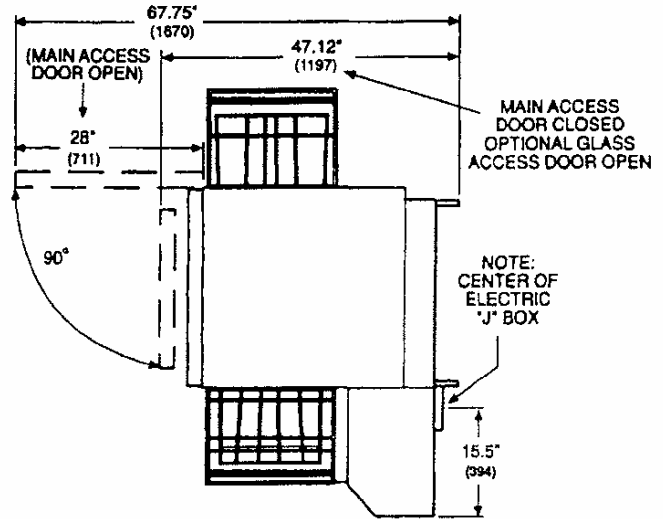
TEMPERATURE RANGE: Gas 300° - 550° F (149° - 288° C) Electric 200° - 550° F (93° - 288° C)

NOTE: Specifications are subject to change. Above data should be used for estimating purposes only.
U.S. Patent Nos.: 3,844,213 and 4,154,862; Other Patents Pending.

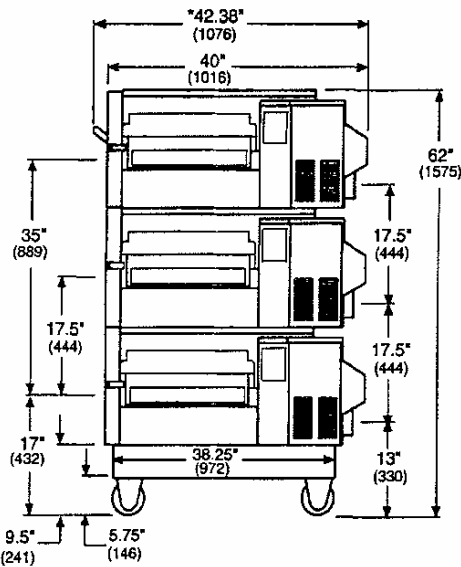
EXTERIOR DIMENSIONS ADVANTAGE OVEN MODELS



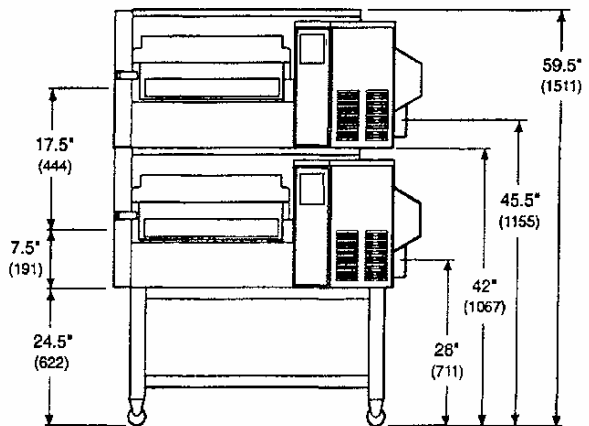
ADVANTAGE COUNTER MOUNT FRONT VIEW
Shown with #1122 Adjustable Bullet Feet



ADVANTAGE TOP VIEW



1124 STAND/TRIPLE-STACKED VIEW



1120 STAND/SINGLE OR DOUBLE-STACKED VIEW

RIGHT SIDE VIEWS OF STACKED OVENS
NOTE: All dimensions shown in () = mm

BODY: Stainless steel. Easy open front for simple cleaning.

POWER: Electric, or Gas and Electric

CONVEYOR: Stainless steel construction with flexible stainless steel belt, travel distances of 52 inches (1320 mm) with 24 inches (610 mm) in the baking area. Conveyor belt width is 18 inches (460 mm). Speed range 50 seconds – 30 minutes.

DB LEVEL: ≤ 70dba

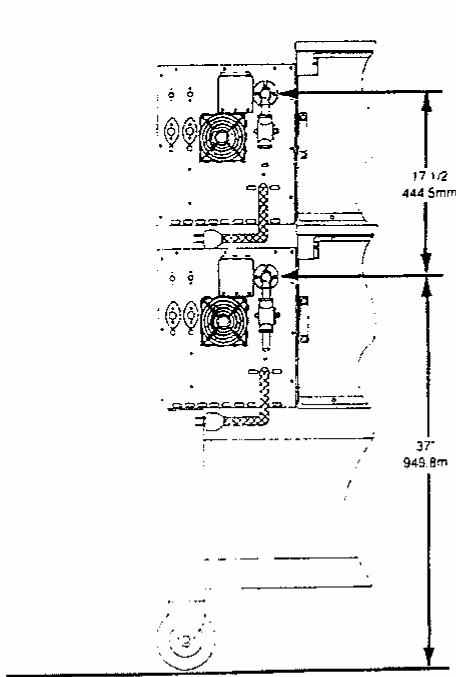
OPERATING

TEMPERATURE RANGE: Gas 300° - 550° F (149° - 288° C) Electric 200° - 550° F (93° - 288° C)

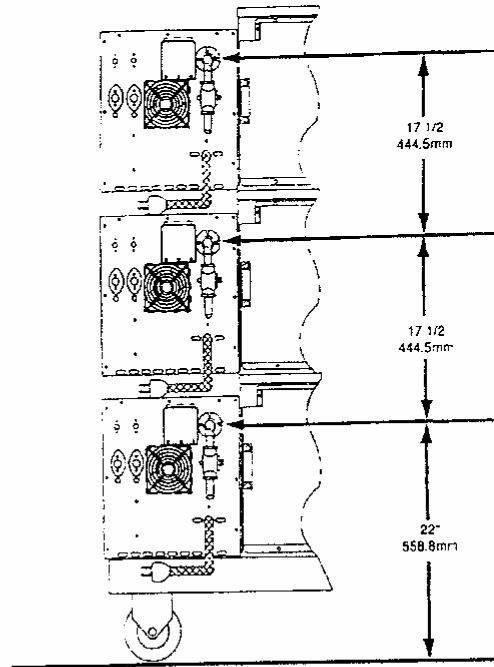
NOTE: Specifications are subject to change. Above data should be used for estimating purposes only.
U.S. Patent Nos.: 3,844,213 and 4,154,862; Other Patents Pending.

UTILITY SERVICE LAYOUT

Gas and electrical services for the Models 1116 and 1117 should be located as shown below. If flexible services are provided, they must meet code requirements for such installation.



Back view of two Impinger® II Gas Ovens showing Gas Valve Installation and piping spacing.



Back view of three Impinger® II Gas Ovens showing Gas Valve Installation and piping spacing.

INSTALLATION CODES AND GUIDELINES

GAS INSTALLATION

Safe and satisfactory operation of this oven depends to a great extent upon its proper installation, and it should be installed, as applicable in accordance with the National Fuel Gas Codes, ANSI Z223.1/NFPA 54 latest version, Manufacturers' Installation Instructions and local municipal building codes, ISO 203-1.

1. The oven and its individual shut off 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 (3.45kPa).
2. The oven must be isolated from the gas supply piping system by closing its individual manual shut off valve during any pressure testing of the gas supply system at test pressures equal to or less than 1/2 psig (3.45kPa).

IN MASSACHUSETTS: The minimum length of a flexible gas supply hose is thirty-six (36") inches.

IN CANADA: The installation of these appliances is to be in accordance with CSA B.149.1 latest version – Natural Gas and Propane Installation Code – and/or Local Codes.

IN AUSTRALIA: Adhere to AG 5601-2004 and 4563-2004 Gas Installation Code.

ELECTRICAL INSTALLATION



WARNING INT'L (CE):

This appliance must be properly grounded at time of installation. Failure to ensure that this equipment is properly grounded can result in electrocution, dismemberment or fatal injury.

When installed, the appliance must be electrically grounded and its installation must comply with the National Electric Code, ANSI-NFPA 70, latest version, the Manufacturers' Installation Instructions, and applicable local municipal building codes.

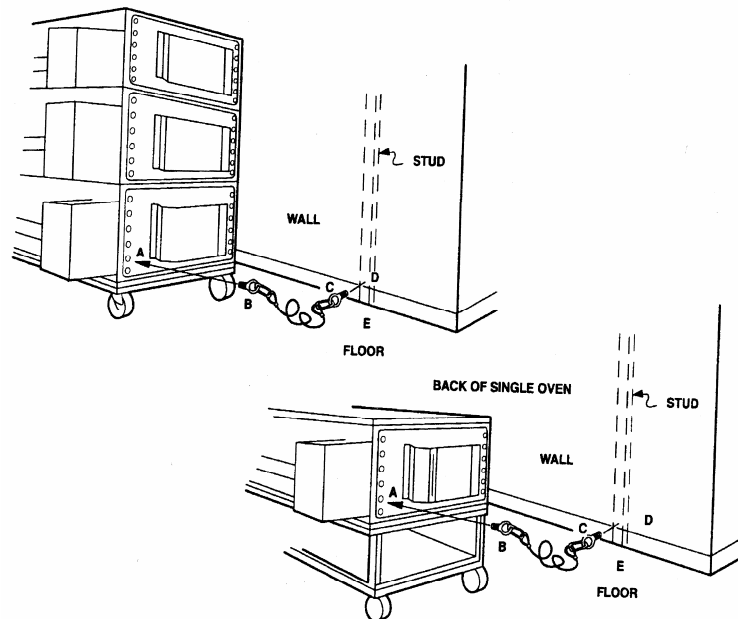
IN CANADA: All electrical connections are to be made in accordance with CSA C22.2 latest version - Canadian Electrical Code and/or Local Codes.

ALL OTHER COUNTRIES: Local gas and/or electrical codes will prevail.

1. Strain Relief is provided with each oven. International Dealer/Distributors provide applicable power cord/plug for each customer.
2. All pole disconnection switch 3 mm open contact distance.
3. To prevent electrical shock an equal potential bonding ground lug is provided in the back. This allows the oven to be connected to an external bonding system.
4. If used as double or triple stack and each oven has its own disconnection switch, all switches should be close together.

RESTRAINT REQUIREMENT – Gas Oven(s) on Casters

1. The installation shall be made with a gas connector that complies with the local codes for Connectors for Movable Gas Appliances, ANSI Z21.69 • CSA 6.16 latest version, and a quick-disconnect device that complies with local codes for Quick-Disconnect Devices for Use with Gas Fuel, ANSI Z21.41 • CSA 6.9 latest version.
2. The installation of the restraint must limit the movement of the oven(s) without depending on the connector, the quick disconnect device or its associated piping to limit the oven movement.
3. If the restraint must be disconnected during maintenance or cleaning, it must be reconnected after the oven has been returned to its originally installed position.



OPERATIONS

1. Screw end B (lifting eye) of cable assembly to hole A. Use ¼ inch eye.
2. Screw end C (eye bolt) of cable assembly to stud in wall (D) or floor anchor (E).

NOTE: Installation point is the same for a single, double, or triple-stack oven.

GENERAL INFORMATION

The instructions that follow are intended as a guide for preparing for the installation of the Impinger Conveyor Oven.

First and foremost, each crate should be examined before signing the Bill of Lading to report any visible damage by the trucker in transit, and to account for the proper number of crates.

IF THERE IS APPARENT DAMAGE:

UNITED STATES AND CANADA: Arrangements should be made to file a claim against the carrier. As Interstate Commerce Regulations require that the claim must be initiated by the consignee.

ALL SHIPMENTS TO OTHER COUNTRIES: Freight terms will be developed and extended on an individual basis.

Proper and secure storage facilities should be arranged for the oven(s) if necessary to protect it from outdoor or damp conditions at all times before installation.

PACKING AND WEIGHTS

All uncrated components of the Impinger Conveyor Oven will pass through a 30 inch wide door. The Impinger Conveyor Oven consists of:

Cartons or Crates	Weight of Each	Dimensions of Each
1 – oven (export)	486 lbs. (220.5 Kilo)	43 1/2" x 63" x 24" (1104.9 x 1600.2 x 609.6 mm)
1 – oven (domestic)	396 lbs. (180.0 Kilo)	42" x 59" x 23" (1066.8 x 1498.6 x 584.2 mm)
1 – stand (export & domestic)	45 lbs. (20.4 Kilo)	42" x 26" x 5" (1066.8 x 660.4 x 127 mm)

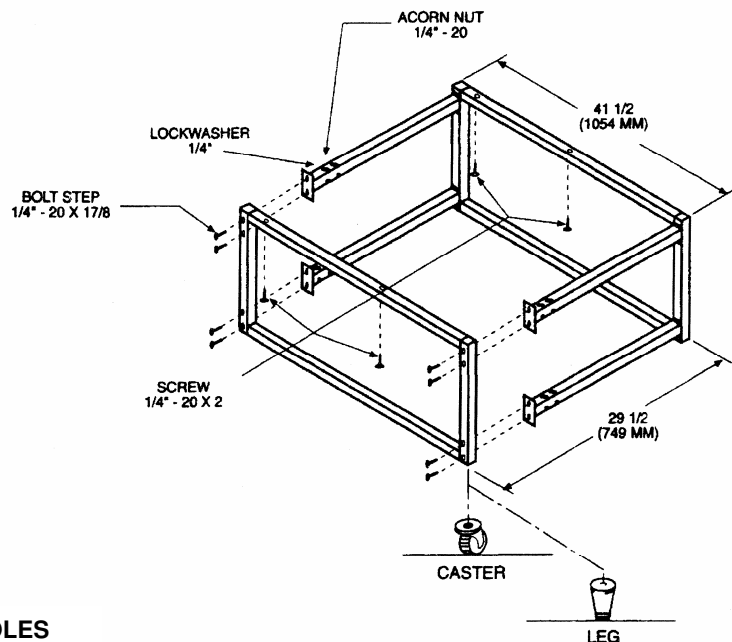
UNCRATING

When you have all the crates unloaded, open the crates and remove the plastic covers. Inspect at once for concealed damage. If anything appears to be damaged, contact the appropriate persons immediately to file a damaged claim. After completing this inspection, finish unpacking the oven and all other components. Be sure to remove the packing cardboard from the plenum shroud. Move the components inside near the area where they will be assembled in the order in which they will be assembled.

ASSEMBLY INSTRUCTION

MODEL 1120, 1121 OVEN STAND

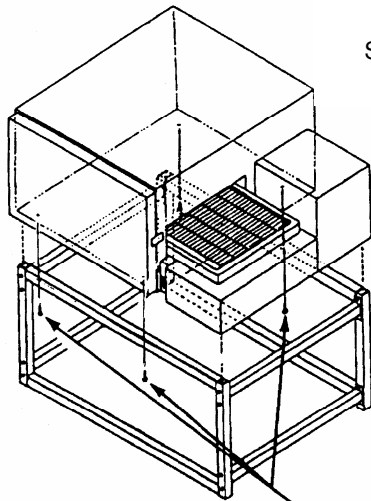
**DO NOT OVERTIGHTEN
NUTS AND CRUSH TUBING!**



**POSITION THE TWO SIDE PIECES SO THAT THE HOLES
FOR THE OVEN MOUNTING ARE AS SHOWN**

IMPINGER II AND ADVANTAGE STACKING INSTRUCTIONS

FOR SINGLE OVEN

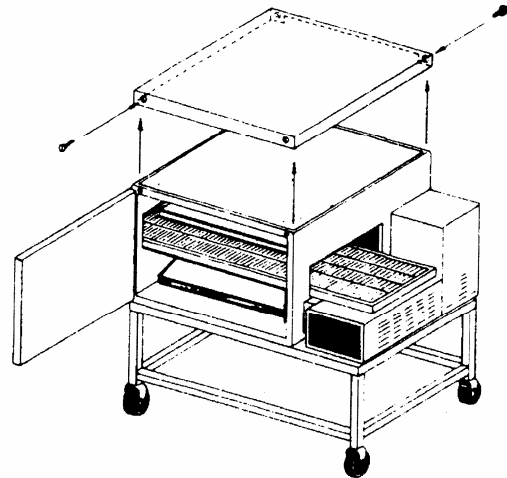


CAUTION:
DO NOT USE
STANDOFFS AS A
LIFTING MEANS

Screw 1/4-20 x 2
Use 4 each

CAUTION: USE EXTREME CARE SO OVEN DOES NOT SLIP OFF STAND BEFORE SCREWS HAVE SECURED OVEN.

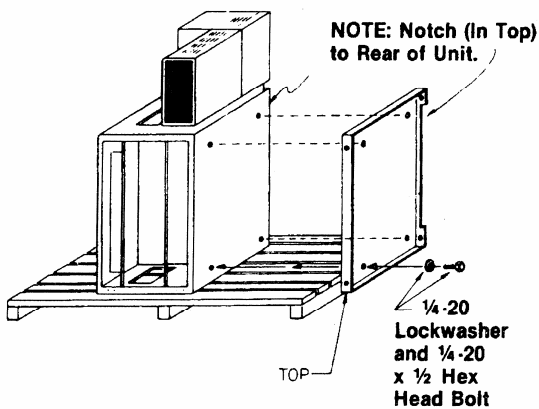
FOR DOUBLE OVEN (Step 1)



BOTTOM UNIT

1. Remove 4 screws holding top in place and save (2 in front, 2 in rear).

FOR DOUBLE OVEN (Step 2)



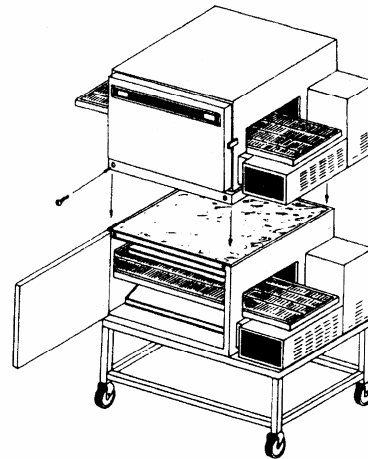
NOTE: Notch (In Top to Rear of Unit.)

1/4-20
Lockwasher
and 1/4-20
x 1/2 Hex
Head Bolt

TOP UNIT

1. Remove door, conveyor and finger assemblies.
2. Turn unit on left side, as shown.
3. Drill holes in cover, as shown. Refer to step 3, pg. 14.
4. Assemble top of bottom unit to bottom of top unit with 4 bolts, as shown.

FOR DOUBLE OVEN (Step 3)



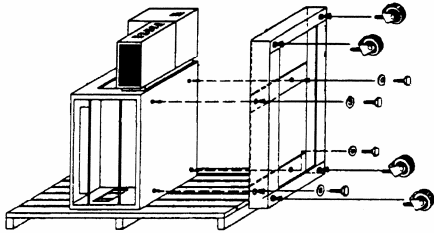
STACKING UNITS

1. Position top unit over top of bottom unit and align top flanges with bottom unit.
2. Replace 4 screws, as shown (2 in front, 2 in rear).
3. Replace door, conveyor and finger assemblies.
4. Stacking is complete.

IMPINGER II AND ADVANTAGE STACKING INSTRUCTIONS (CONT'D)

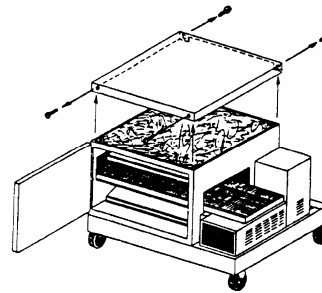
FOR TRIPLE OVEN

(STEP 1)



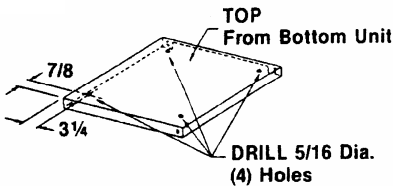
1. Remove door, conveyor and finger assemblies.
2. Turn unit on side, as shown.
3. Remove three screws from Front Cover.
4. Fasten base to oven with four 1/2 - 13 x 1/2" long Hex Head Bolts.
5. Screw casters into base.

(STEP 2)



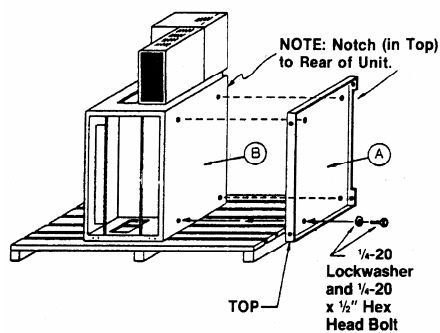
1. Set oven upright.
2. Remove oven top by removing 2 screws in front and 2 screws in back. (Save the screws.)
3. Replace door, conveyor and fingers.

(STEP 3)



1. Prepare top for mounting as shown above.

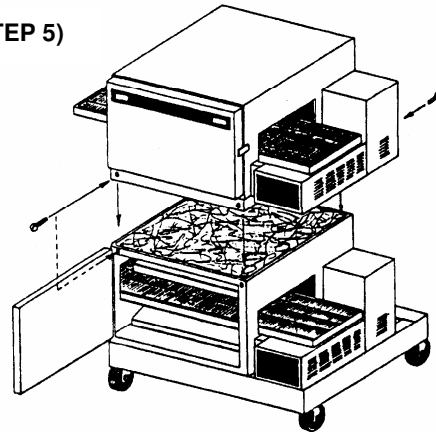
(STEP 4)



OVEN TO BE STACKED

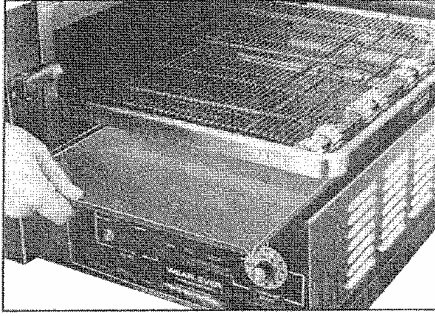
1. Remove door, conveyor and finger assemblies.
2. Turn unit on left side, as shown.
3. Assemble top of bottom unit to bottom of top unit with 4 bolts, as shown.

(STEP 5)



1. Position top oven over bottom and align the top oven flanges over the outside of the bottom oven, as shown.
2. Lower oven in place.
3. Fasten ovens together using the four screws from Step 2 (2-front, 2-back).
4. Replace door, conveyor and fingers.
5. Repeat steps 2 - 5 to stack third oven.

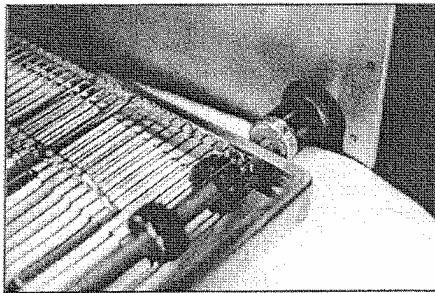
CONVEYOR REMOVAL



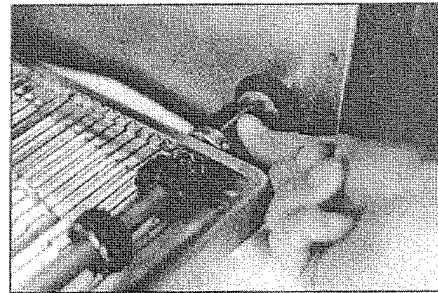
1. Remove crumb trays on both ends of the conveyor.



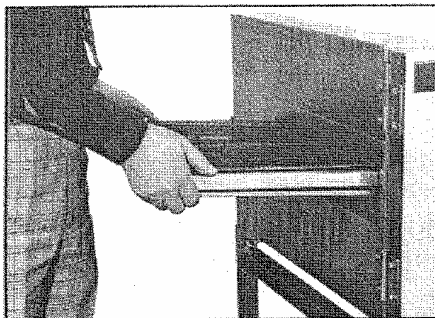
2. Remove drive sprocket shield.



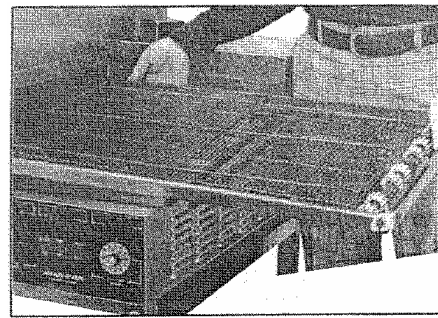
3. Grasp rubber coupling firmly and pull toward conveyor.



4. Coupling will snap back allowing removal of conveyor. (Set screw on conveyor side is a spring loaded ball detent and is NOT to be tightened firmly.)

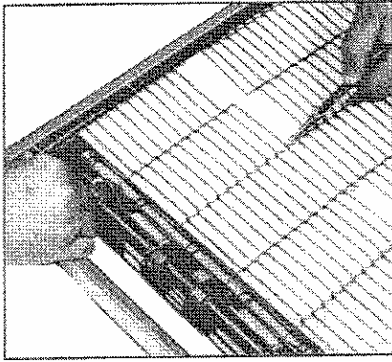


5. Proceed to opposite end of conveyor and lift up and push forward.

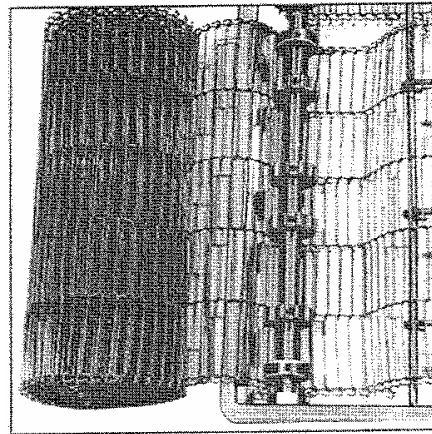


6. Then return to control end of the conveyor and remove conveyor from oven cavity. Reassemble in reverse order.

CONVEYOR DISASSEMBLY FOR CLEANING



DISASSEMBLY: The Connecting Links may be removed with a pair of pliers by slipping the eye of the connecting link over the wire of the other links. Also notice the direction of the opening on the other links. The belt will have to be reinstalled with the opening facing the same way.



REASSEMBLY: Put conveyor belt back on by setting the rolled belt to the idler end of the conveyor and thread approximately 2/3 of the belt over the bottom slider bed. Be sure belt is not upside down. Reconnect conveyor belt by slipping the connecting links back in place.

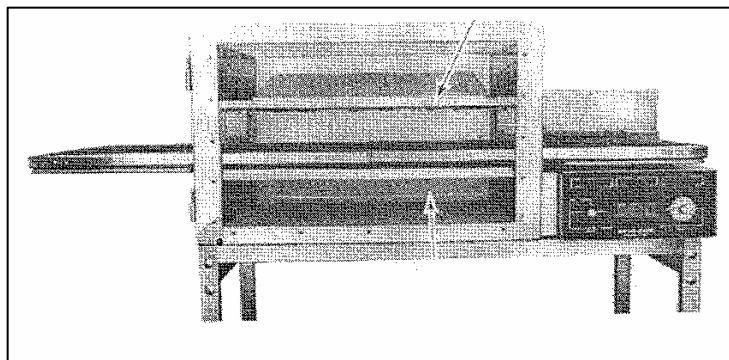
NOTE: The Conveyor Belt of the Impinger II and the Advantage oven does not have a tension adjustment. If the belt would become too loose, a link will have to be removed to tighten. A belt that is too tight will also cause operational problems due to excessive drag. We suggest that you may have a qualified service technician perform this adjustment.

WARNING: Careful consideration should be exercised prior to removing a belt link because a belt that is too tight will impede the smooth operation of the conveyor.

FINGER ASSEMBLY REMOVAL

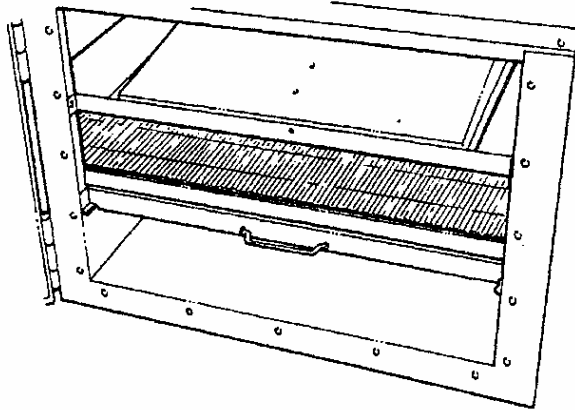


CAUTION: OVEN MUST BE COOL

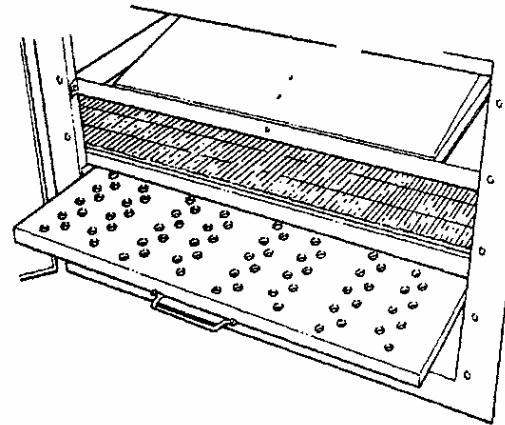


1. Open Door. NOTE: Door may be removed by lifting from hinges.

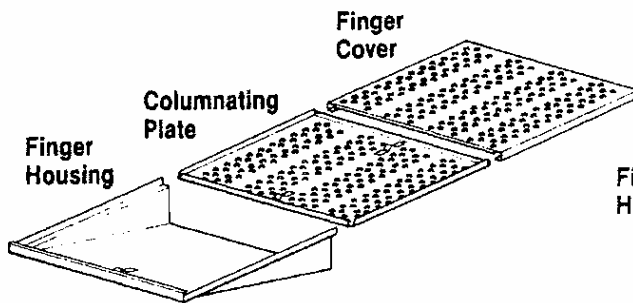
FINGER ASSEMBLY REMOVAL (CONT'D)



2. Grasp top finger housing, lift up from bracket and pull forward.

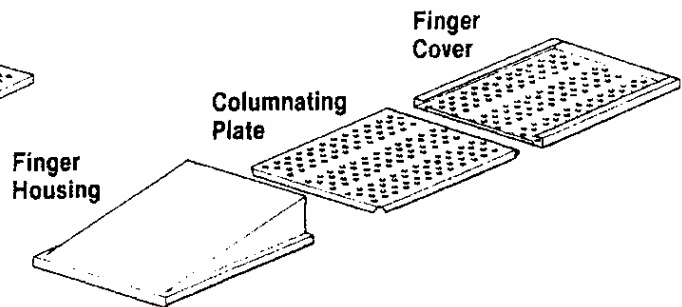


3. Grasp bottom finger housing handle and pull forward, sliding assembly out of oven.



BOTTOM FINGER ASSEMBLY

4. Slide finger cover from housing. Lift out inner Columnating Plate.

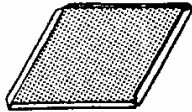


TOP FINGER ASSEMBLY

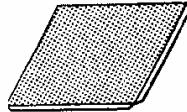
5. Reassemble in reverse order. Be sure finger assembly seats securely over rear openings.

HOW TO OBTAIN SERVICE

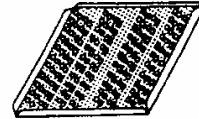
If the oven fails to operate, check the circuit breaker to be sure it is turned on (on a gas oven check the manual gas valve to insure it is in the "ON" position). In addition, check the fuses on the back of the oven to be sure that they are good before you call the Authorized Service Agency. The name and phone number of the Authorized Service Agency should be located on the oven or contact the factory for the name of the nearest Authorized Service Agency.



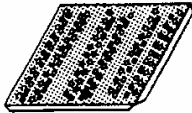
Columnnating panel—full open, moderate velocity, bottom
#1524



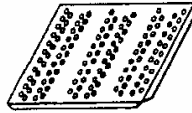
Columnnating panel—full open, moderate velocity, top
#1525



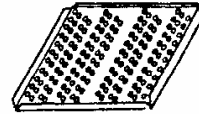
Columnnating panel—full open, high velocity, bottom
#1526



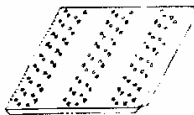
Columnnating panel—full open, high velocity, top
#1527



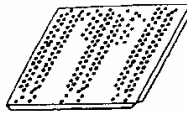
Columnnating panel—full open, standard velocity, top
#1528



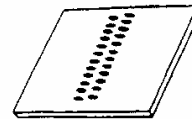
Columnnating panel—full open, standard velocity, bottom
#1529



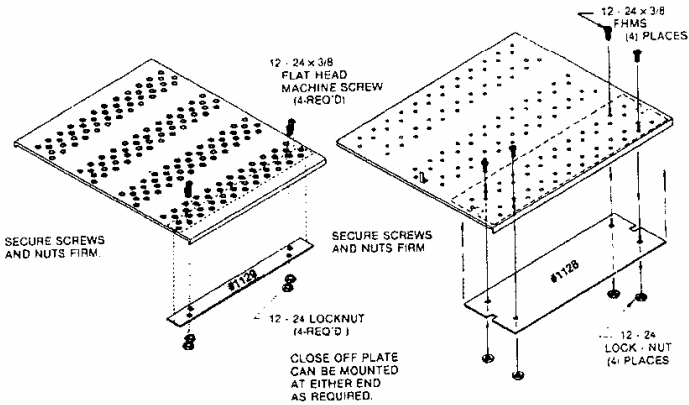
Columnnating panel—full open, low velocity, top (to be used with #1544 special low velocity cover plate)
#1542



Columnnating panel—full open, high velocity, top
#1543

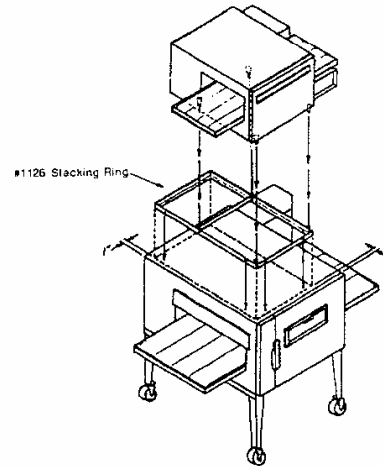


Special low velocity cover plate (to be used with #1542 columnnating panel)
#1544

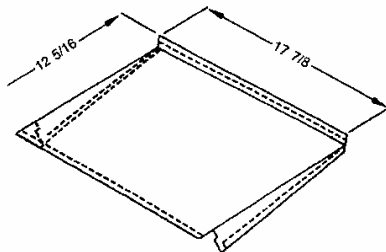


Impinger Oven Half Close Off Plate
#1129

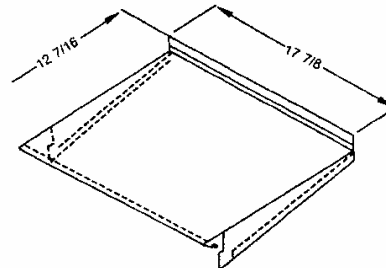
Impinger Oven Full Close Off Plate
#1128



Stacking Ring
#1126



#1141 Take Off Shelf (7° Decline)



#1140 Take Off Shelf (Straight)

YOU ARE NOW READY FOR THE SERVICES TO BE CONNECTED. THIS SHOULD BE DONE BY A QUALIFIED PLUMBER, ELECTRICIAN, OR INSTALLER OF YOUR CHOICE. FOR INSTALLATION IN THE STATE OF MASSACHUSETTS: INSTALLATION OF THIS OVEN MUST BE PERFORMED BY A LICENSED PLUMBER OR GAS FITTER. REFER TO PAGE 4 FOR UTILITY SPECIFICATIONS AND PAGE 10 FOR CODE REFERENCE.

NOTICE: The manual shut-off valve must be installed so that the test plug is on the oven side of the valve.

DO NOT ATTEMPT TO OPERATE THE OVEN until connection of utility service and installation has been fully inspected (START-UP CHECKOUT) by and Authorized Service Technician or a Lincoln Foodservice Products, LLC Service Representative. This service is required by Lincoln Foodservice Products, LLC in order to assure the oven(s) is/are properly installed and in working order. The warranty becomes effective upon verification of proper installation.

The warranty shall not apply if the oven(s) is/are started up and operated prior to the “START-UP CHECKOUT” being performed by an Authorized Service Technician or a Lincoln Foodservice Products, LLC Service Representative.



CAUTION:

DO NOT WORK AROUND CONVEYOR BELT WITH LONG HAIR, LOOSE CLOTHING, OR DANGLING JEWELRY. GETTING CAUGHT IN THE BELT COULD RESULT IN DISMEMBERMENT OR FATAL INJURY.



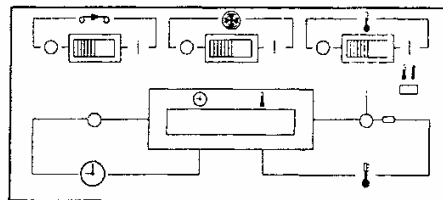
WARNING:

IF THE SUPPLY CORD APPEARS TO BE DAMAGED, DO NOT ATTEMPT TO OPERATE UNIT. CONTACT A SERVICE AGENT OR QUALIFIED ELECTRICIAN TO REPAIR.

IMPINGER II

START-UP

1. Push switches for FAN, CONVEYOR, and HEAT to “ON”. The electric oven should come on immediately. The gas oven should light in 45 – 50 seconds.
2. **GAS OVENS ONLY!** If the indicator lamp does not light, turn HEAT switch off, wait 5 minutes and turn HEAT switch on again.
3. Turn oven dial to desired temperature.
4. Preheat oven for 30 minutes.
5. To set belt speed, slowly adjust oven time dial to reach desired time.
6. After preheat adjust oven temperature and conveyor to final desired settings.



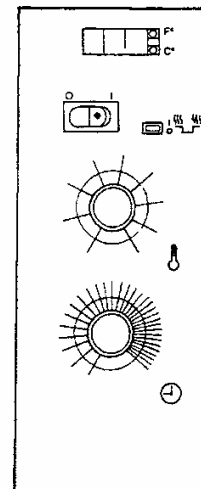
SHUT DOWN

1. Push switches for FAN, CONVEYOR, and HEAT to “OFF”. (Fan continues to operate for approximately 20 minutes. Turning on and off fan switch will reset the timer for an additional 20 minutes.)

ADVANTAGE

START-UP

1. Turn switch on.
2. Turn thermostat to desired setting.
NOTE: For gas ovens the lamp should light in 45 – 50 seconds. If lamp does not light, turn switch off, wait 5 minutes and restart.
3. Preheat oven for 30 minutes.
NOTE: The amber light above the temperature control dial should go on and off indicating heating system operation.
4. Adjust conveyor speed, time conveyor and readjust if necessary.



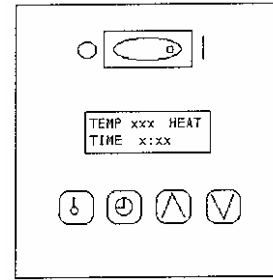
SHUT DOWN

1. To shut down, turn off switch.

PROGRAMMING THE DIGITAL ADVANTAGE 1100 SERIES TOUCH PAD

INTRODUCTION: START-UP AND SHUT DOWN

For the operator, the panel has power-up, run, and program menu modes. To start the oven, turn the power switch on. To shut down the oven, turn the power switch off.



FRONT PANEL LAYOUT

The front panel contains four (4) momentary push-buttons: TEMP, TIME, UP, and DOWN. There is a two-line by sixteen-character VFD display.

TEMPERATURE SETPOINTS

For Digital Advantage ovens there is one setpoint. To enter the setpoint mode, press the TIME & TEMP buttons together and hold for 5 seconds. Pressing the TEMP push-button, the display will show the current setting. Pressing the UP or DOWN push-buttons will raise or lower the temperature to the desired setting. In the Fahrenheit (or F mode) the temperature is adjusted in 1-degree increments. Pressing and holding the UP or DOWN keys will allow the settings to “roll” at a much faster rate. When the desired temperature is indicated, release all keys. After 5 seconds the selected setpoints will be stored and remain in memory.

TIME SETPOINTS

There is one set point for the conveyor speed. Enter the setpoint mode as mentioned above. The speed can be set as follows:

- 1:00 to 9:55 in 5 second increments
- 10:00 to 12:45 in 15 second increments
- 13:00 to 19:30 second increments
- 20:00 to 30:00 in 1 minute increments

JUMPING BETWEEN MENUS

Pressing the TIME pushbutton while in the TEMP setting mode (and vice versa) will cause the menu selection to jump over to that mode.

DIAGNOSTIC MESSAGES

The Digital Advantage ovens have diagnostic messages within the control. Upon the unexpected event that there is a failure in the oven operation, the following messages will appear in the control:

OPEN PROBE

This occurs when there is no temperature being sent to the controller from the baking chamber.

SHORTED PROBE

This occurs when a constant temperature setting signal (as opposed to the normal cyclical cavity temperature) is being sent to the controller from the baking chamber. **CAUTION:** This message can occur when there is no gas supply to the oven. If the oven does not detect a temperature fluctuation in 5 minutes, the error message will appear. Be sure to check the gas valve and gas hose for proper connections.

BELT JAM

This occurs when the conveyor motor fails.

REVERSING SWITCH

The Digital Advantage 1100 Series has a belt direction reversing switch located on the back of the oven which allows for right to left or left to right operation.

FUNCTIONS

THERMAL CUT-OUT SWITCH

The Impinger II unit includes a “safety thermal cut-out switch” for your protection. This safety related device is designed to insure that the Impinger II unit will not overheat and damage the unit. In the unlikely event that the Impinger II unit would exceed the specified operating temperature range, the “safety thermal cut-out switch” will activate, thus blocking power to the Impinger I unit and causing it to turn off.



CAUTION:

In order to avoid a hazard due to inadvertent resetting of the thermal cutout, this appliance must not be supplied through an external switching device, such as a timer or connected to a circuit that is regularly switched on and off by the utility.

OPERATOR MAINTENANCE



CAUTION – DANGER:

DISCONNECT POWER SUPPLY BEFORE SERVICING OR CLEANING THIS OVEN. SAFEGUARD POWER SO IT CANNOT BE ACCIDENTALLY RESTORED. FAILURE TO DO SO COULD RESULT IN DISMEMBERMENT, ELECTROCUTION, OR FATAL INJURY. THERE IS MORE THAN ONE POWER SUPPLY CONNECTION POINT WHEN OVENS ARE STACKED, SO MAKE SURE THAT ALL SWITCHES ARE IN THE “OFF” POSITION BEFORE CLEANING OR MAINTENANCE.

Extensive engineering went into this oven to make it as maintenance free as possible. There is no lubrication required.

However, to achieve the maximum efficiency of the oven, it is necessary to keep it clean. For cleaning instructions, see below. The frequency listed is only the factory's recommendations. Your use and type of products will actually determine the frequency of cleaning.

If the oven fails to operate, check the circuit breaker and gas valve to be sure they are turned on. Also, check the fuses on the control panel to be sure that they are good before you call the Authorized Service Agency. The name and phone number of the Authorized Service Agency should be located on the oven or contact the factory at area code (260) 432-9511 for the name of the nearest Authorized Service Agency.

CLEANING INSTRUCTIONS

The Lincoln Impinger oven contains electrical components. Before cleaning the oven, switch off and disconnect the oven from the electrical supply.

No electrical components should be subjected to moisture. It is, therefore, important that the oven is wiped down carefully. NEVER throw buckets of water over the oven or subject it to pressure washing from a hose or a pressure spray. If water or other liquid is spilled on the oven, make sure that none has entered the control box area before switching on. If in doubt, call your service company.



CAUTION:

OVEN MUST BE COOL. DO NOT USE POWER CLEANING EQUIPMENT, STEEL WOOL, OR WIRE BRUSHES ON STAINLESS STEEL SURFACES.

DAILY

1. Clean exterior surfaces of the oven by wiping it down with a mild detergent and clean water, or a commercial stainless cleaner.
2. Clean crumb pans and guards by washing with a mild detergent solution and rinsing with clean water.
3. Clean the interior by sweeping up all loose particles, then wash with a mild detergent solution and rinse with clean water.
4. Clean the conveyor belt by wiping with a cleaning cloth or brushing with a **soft** wire brush.
Lincoln catalog #369217.



CAUTION:

DO NOT USE A CAUSTIC OR AN ALKALINE BASE CLEANER ON INTERIOR OF THE OVEN. THIS WILL RUIN THE ALUMINIZED FINISH OF THE OVEN INTERIOR.

On **exterior** of oven, deposits of baked-on splatter, oil grease, or light discolorations may be removed with any of several commercial cleaners. Consult with your local supplier.



CAUTION:

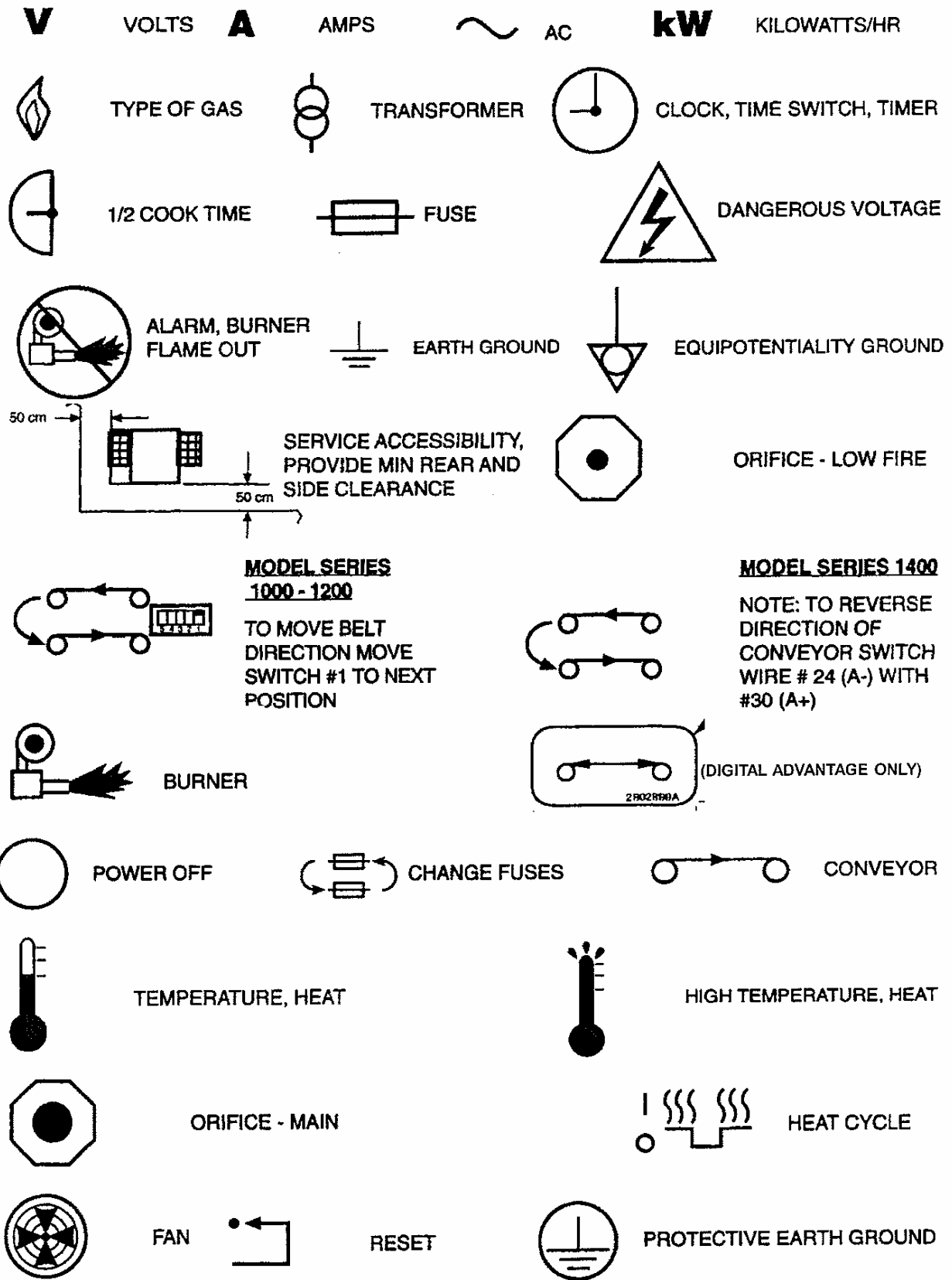
WHEN USING CLEANING SOLUTIONS, BE SURE THEY MEET LOCAL AND NATIONAL HEALTH STANDARDS.

WEEKLY

1. Remove fingers, disassemble and clean. Instructions on Page 16 and 17.
2. Remove conveyor, disassemble and clean. Instructions on Page 15 and 16.

NOTE: Be sure to clean and inspect the ventilation hood, in accordance with the ventilation hood manufacturer's specifications.

APPENDIX A – LABEL DEFINITIONS



PREVENTIVE MAINTENANCE

Although this oven has been designed to be as trouble free as possible, periodic Preventive Maintenance is essential to maintain peak performance. It is necessary to keep the motors, fans, and electronic controls free of dirt, dust and debris to insure proper cooling. Overheating is detrimental to the life of all components mentioned.

The periodic intervals for preventative cleaning may vary greatly depending upon the environment in which the oven is operating.

You must discuss the need for Preventive Maintenance with your Authorized Service Company to establish a proper program.

If there is any question the service company cannot answer, contact the Lincoln Foodservice Product, LLC Service Department.

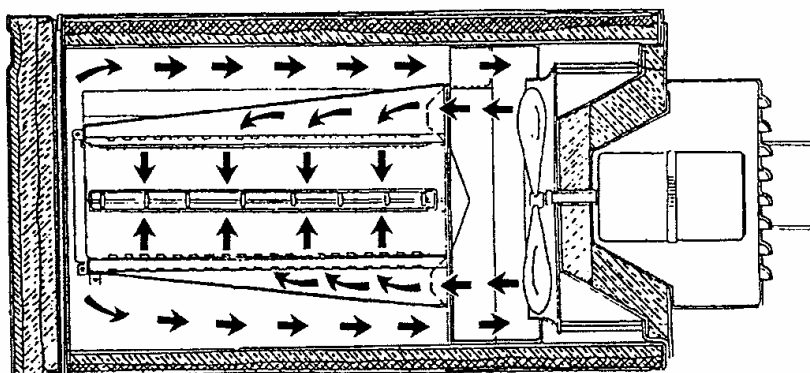
CONCEPTS

The Impinger Conveyor Oven produced by Lincoln Foodservice Products, LLC utilizes a revolutionary cooking concept, called "AIR IMPINGEMENT." It provides exceptional baked food product quality in far less time than conventional devices on the market. The "AIR IMPINGEMENT" system directs a high velocity stream of heated air at the food product being baked. This blast effect penetrates the boundary layer of air encircling the product and heats the food more efficiently because the air concentrates heat on the product. Greater heat transfer rates, which result in products baking two or four times faster than conventional means, are possible with "AIR IMPINGEMENT."

The "AIR IMPINGEMENT" process develops the high velocity air stream with a specially designed fan that draws super-heated air from a heat source (either gas or electric). This air is directed through a plenum chamber to patented "JET FINGERS" which have hundreds of focused jet ports that "impinge" the heated air onto the product surface. The heated air is recycled to the heat source after striking the product, thus reducing energy consumption.

A variable speed conveyor system moves food products through the oven after another to improve product flow during the cooking process.

The "AIR IMPINGEMENT" process is tolerant enough for sensitive food products and effects proper crisping and even browning of such products as they pass through the oven because air is the medium which heats the food product.



USE OF OVEN

We encourage you to experiment with the oven by trying different temperature settings and belt speeds. Also, try to control the cooking of the product by arranging the optional ½ (#1129) and full close off plate (#1128), shown on page 18. Also shown on page 18 are additional columnating plates that are available for various applications.

LIMITED WARRANTY FOR COMMERCIAL PRODUCTS

LIMITED WARRANTY

Lincoln Foodservice Products, LLC ("Lincoln") warrants this product to be free from defects in material and workmanship for a period of one (1) year from the date of purchase.

During the warranty period, Lincoln shall, at Lincoln's option, repair, or replace parts determined by Lincoln to be defective in material or workmanship, and with respect to services, shall re-perform any defective portion of said services. The foregoing shall be the sole obligation of Lincoln under this Limited Warranty with respect to the equipment, products, and services. With respect to equipment, materials, parts and accessories manufactured by others, Lincoln's sole obligation shall be to use reasonable efforts to obtain the full benefit of the manufacturer's warranties. Lincoln shall have no liability, whether in contract, tort, negligence, or otherwise, with respect to non-Lincoln manufactured products.

WHO IS COVERED

This Limited Warranty is available only to the original purchaser of the product and is not transferable.

EXCLUSIONS FROM COVERAGE

- Repair or replacement of parts required because of misuse, improper care or storage, negligence, alteration, accident, use of incompatible supplies or lack of specified maintenance shall be excluded
- Normal maintenance items, including but not limited to, light bulbs, fuses, gaskets, O-rings, interior and exterior finishes, lubrication, conveyor belt, motor bushes, broken glass, etc. adjustments and calibrations for temperatures, speed and air flows
- Failures caused by improper or erratic voltages
- Improper or unauthorized repair
- Changes in adjustment and calibration after ninety (90) days from equipment installation date
- This Limited Warranty will not apply to any parts subject to damage beyond the control of Lincoln, or to equipment which has been subject to alteration, misuse or improper installation, accidents, damage in shipment, fire, floods, power changes, other hazards or acts of God that are beyond the control of Lincoln
- This Limited Warranty does not apply, and shall not cover any products or equipment manufactured or sold by Lincoln when such products or commercial equipment is installed or used in a residential or non-commercial application. Installations not within the applicable building or fire codes render this Limited Warranty and any responsibility or obligations associated therein null and void. This includes any damage, costs, or legal actions resulting from the installation of any Lincoln commercial cooking equipment in a non-commercial application or installation, where the equipment is being used for applications other than those approved for by Lincoln.

LIMITATIONS OF LIABILITY

The preceding paragraphs set forth the exclusive remedy for all claims based on failure of, or defect in, products or services sold hereunder, whether the failure or defect arises before or during the warranty period, and whether a claim, however instituted, is based on contract, indemnity, warranty, tort (including negligence), strict liability, implied by statute, common-law or otherwise, and Lincoln its servants and agents shall not be liable for any claims for personal injuries, incidental or consequential damages or loss, howsoever caused. Upon the expiration of the warranty period, all such liability shall terminate. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER WRITTEN, ORAL, IMPLIED OR STATUTORY NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE SHALL APPLY. LINCOLN DOES NOT WARRANT ANY PRODUCTS OR SERVICES OF OTHERS.

REMEDIES

The liability of Lincoln for breach of any warranty obligation hereunder is limited to: (i) the repair or replacement of the equipment on which the liability is based, or with respect to services, re-performance of the services; or (ii) at Lincoln's option, the refund of the amount paid for said equipment or services.

Any breach by Lincoln with respect to any item or unit of equipment or services shall be deemed a breach with respect to that item or unit or service only

WARRANTY CLAIM PROCEDURE

Customer shall be responsible to:

- Immediately advise the Dealer or Lincoln's Authorized Service Agent of the equipment serial number and the nature of the problem.
- Verify the problem is a factory responsibility. Improper installation or misuse of equipment, are not covered under this Limited Warranty.
- Cooperate with the Service Agency so that warranty service may be completed during normal working hours.
- Travel Time not to exceed two hours and mileage not to exceed one hundred (100) miles.

GOVERNING LAW

Limited Warranty shall be governed by the laws of the state of Delaware, USA, excluding their conflicts of law principles. The United Nations Convention on Contracts for the International Sale of Goods is hereby excluded in its entirety from application to this Limited Warranty

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www.lincolnfp.com

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