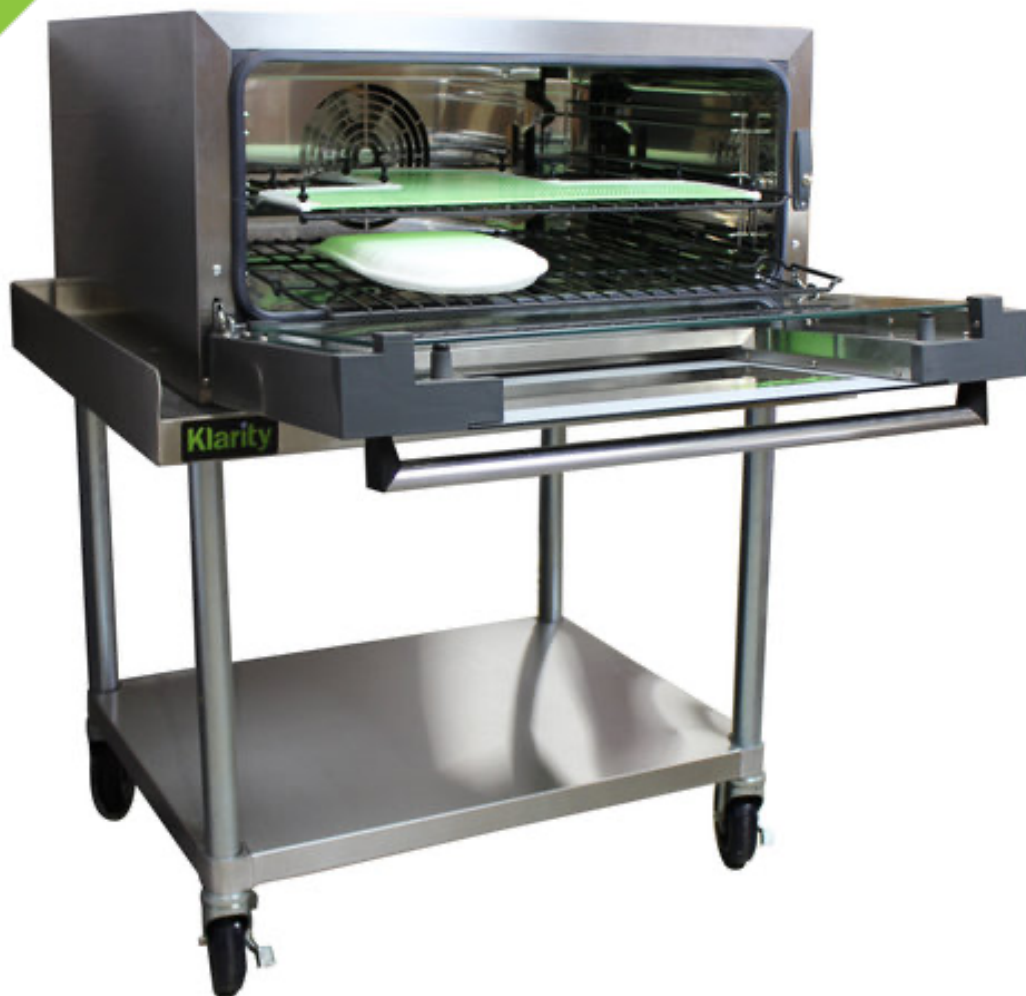




# KEL-1400 Klarity AirFlow™ Oven Manual



*To be used by a qualified medical professional  
IFU-O-005*

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## INSTRUCTIONS FOR THE INSTALLER

Congratulations! You have just purchased a new AirFlow™ digital convection oven, manufactured for Klarity by UNOX S.p.A. Please review these instructions before using your new oven. Everyone who uses the oven should read the manual before operating. Keep the manual in a safe place.

### Data Plate

The data plate is located on the side of the oven. It provides technical information that will be important in the event of any maintenance or repairs. Do not remove, modify, or damage the plate.



### Certifications

The “NSF” safety certification mark on our data plates and in our user manual refers to the following listing under UNOX S.p.A.:

**NSF/ANSI STANDARD 4: Commercial Cooking, Rethermalization and Powered Hot Food Holding and Transport Equipment**

For the complete listing, visit

<http://info.nsf.org/Certified/Food/Listings.asp?Company=79610&Standard=004>.

The “MET” safety certification mark on our data plates and in our user manual refers to the following listings:

**Class Number: 2831-03 DESCRIPTION: HEATERS - Cooking and Liquid - Stationary: Class Number: 2831-83 DESCRIPTION: HEATERS - Cooking and Liquid - Stationary**

Certified to the requirements of UL 197 (for USA) and CSA C22.2 No. 9 (for Canada).

Certifications are listed under UNOX S.p.A., MET ID number E112912, which includes digital convection oven models from the XAFT series. For MET Laboratories’ searchable online safety certification database, visit <http://corp.metlabs.com/safety/listing.asp>.



# INSTALLATION

All installation operations must be performed by qualified personnel and comply with all existing codes. Installation or maintenance that fails to follow the instructions in this manual may cause damage or personal injury and may void the warranty, releasing Klarity Medical Products of all liability.

## Assess the Installation Site

Before installing the oven, verify the overall measurements and the exact position of the electrical connections in the planned installation site.

## Positioning

Situate the oven so the back and sides can be easily reached. This will make the electrical connections and any servicing points easily accessible. The oven is not designed for built-in applications or for side-by-side positioning. The oven must be placed upon a support, stand, or counter made of noncombustible material. Never install the oven directly on the floor. If the oven is placed near walls, dividers, cabinets, or drapes, then they must be made of noncombustible materials.

## Remove the Protective Film

Carefully remove all of the protective film from the external walls of the oven. Remove any residual glue left on the outside of the oven with an appropriate solvent.

## Counter Mount

If the oven will not completely fit on your counter, the Klarity AirFlow Counter Mount (KEL-113) and the Stainless-Steel AirFlow Cart (KEL-C100) are available for purchase.

## Electrical Connection

Connection to the electrical power source must be done according to all state and local codes. Before connecting the oven, make sure that the voltage and the amps comply with those stated on the oven's data plate. Avoid using patch cords and multiple jacks.

The appliance must be situated so that the connection between the plug and the outlet can be easily reached. When the appliance is in operation, the power supply voltage must not diverge from the value of the nominal voltage written on the data plate by more than  $\pm 10\%$ .

The oven is equipped with a cord (single phase, 120V or 208–240V, depending on the oven model). Insert the plug into the proper outlet.

## Combustion Risk

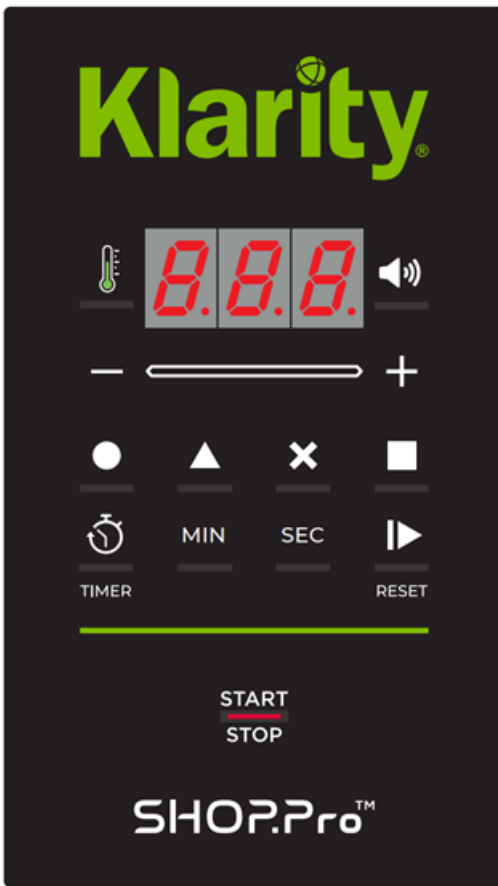
Prior to use, verify that there are no noncompliant objects (e.g., paper, plastic bags, etc.) present within the oven cavity, and ensure that the vent on the back is unobstructed. Failure to do so increases the risk of fire.

## RESTRICTIONS FOR USE



- This unit has been constructed for indoor use only. Only use the oven in a clean, dry environment.
- Nothing should come in contact with the ovens outside surface when in use. Although well insulated, the surface may become hot during use.
- Do not place objects on top of the oven at any time.
- Keep this user manual near the unit for easy reference when needed.
- Do not situate the back side of the oven directly against a wall, as the back side becomes hot during use.
- Be sure there is adequate space to open the oven door completely.
- Do not use a steam cleaner to clean this appliance. Pressurized steam can damage electrical components and cause a short circuit.
- Do not use plastic containers or plastic wraps in the oven, unless the material has been tested and approved for this purpose. Some plastics may melt and cause damage to the oven.
- Do not use sharp objects to remove dirt or debris from the oven racks. These racks have a nonstick coating that can be damaged by sharp objects or abrasive cleaning.
- All four corners of the oven must be supported when placed on a countertop.

## OVEN OPERATION




1. Plug the oven into the wall outlet.
2. Press the start button. The oven will begin heating. We strongly recommend letting the oven continuously run during your treatment/planning day schedule. Doing this will eliminate downtime waiting for the oven chamber to reheat.
3. Let the oven warm for 10-15 minutes. The screen will flash every 10 seconds to let you know the oven chamber's current temperature. The thermometer icon next to the temperature display will light up in red when the oven is warming and turn off when the oven is cooling. However, it is okay to open the oven door at any time during this process.
4. Once the oven chamber is at the desired temperature, open the door and place your mask or Klarity cushion on the center rack. If you are warming a mask and Klarity cushion together, place the mask on the center rack and the Klarity cushion on the lower rack. You may need to rearrange the racks for larger cushions.
5. The recommended temperature for Klarity® brand masks is 165 degrees Fahrenheit. However, you can manually adjust the temperature using the "+" or "-" on the control panel.
6. Let the mask/cushion warm up. Klarity® brand masks take approx. 3-5 minutes, and Klarity Cushions™ approx. 10-15 minutes.
7. When removing a mask from the oven, pick it up by the frame. Before placing the mask on the patient, let it cool for 10-20 seconds by gently waving it back and forth in the air.
8. When you are finished using the oven, press the "Start/Stop" button. The light and fans will turn off. The oven is now powered down.

Note: The “Circle”, “Triangle”, “Square” and “X” buttons are for maintenance purposes only and have no operation for the user.

Note: The oven is built for prolonged commercial use. We recommend starting the oven and letting it run continuously. This way there is no down time waiting for the chamber to reheat between patients.

## USING THE OPTIONAL TIMER

The KEL-1400 oven now offers an optional built-in timer. This is how to use it:

1. Make sure the oven is powered on and has been heating for a minimum of 15 minutes.
2. Press the timer icon (see page 6).
3. Use the + or – buttons to select a desired time value. You may also use the “MIN” and “SEC” buttons to advance the timer value (see page 6). If you go past your desired time, use the – button to lower the timer to the desired value.
4. Using the speaker icon button , select if you want to hear a “beep” sound when the timer has reached 0.00. The volume is audible, but not overwhelming. The chamber light will also flash to indicate that the timer has reached 0.00
5. Press the “Reset” button to start the countdown (see page 6).
6. When the timer has completed, you may start a new timer to begin by repeating steps 3-5.
7. To exit the timer, press the timer icon (see page 6). This will return the display to the current temperature view.

## CLEANING THE OVEN



**WARNING:** Before starting any maintenance or cleaning operation, it is necessary to disconnect the electrical power supply and wait for your oven to cool down.

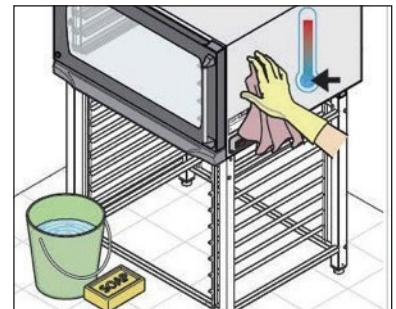
**CAUTION:** Do not clean the display with water. Use only a soft, dry cloth. Do not use a steam cleaner to clean this appliance. Pressurized steam can penetrate electrical components and cause a short circuit.

### Cleaning the Interior Chamber

- Clean the interior chamber using water and a mild detergent.
- Never wash the oven chamber with acids, abrasives, or aggressive detergents.
- Never use powder detergents or any product containing chlorine.
- Never use sharp scrapers or abrasive sponges.
- Make sure to wipe up any and all spills as they occur.

### Cleaning the Oven Exterior

- Clean the appliance with a solution of warm water and liquid soap, applied with a soft sponge. Dry with a soft cloth.
- Wipe up spills as they occur with a damp cloth. Warm water and a mild detergent can also be used. Rinse and dry completely.
- Never spray water to clean the outside of the oven. This may damage the electrical components and void the oven's warranty.







## REPAIR

Should a defective unit need repair, the unit must be cleaned and shipped to the US distributor, Klarity Medical Products, LLC, at the shipping address below.

A detailed description of the type of problem or defect must be included. Ovens may also display an error code on the LED readout. Please note the code when inquiring about repairs.

All units to be returned must receive a Returns Authorization Number from Klarity prior to being shipped.

For repair questions please contact:

Ph: 740-788-8107 Ext.112

Fax 740-788-8109

Email: [service@klaritymedical.com](mailto:service@klaritymedical.com)

Do not try to perform any repair(s) on the unit during the warranty period.

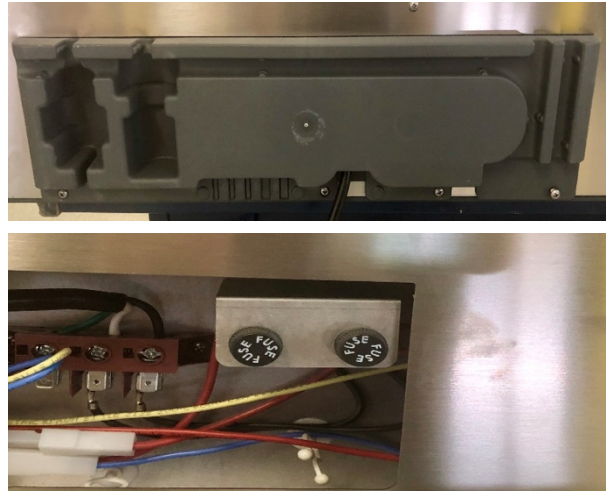


**CAUTION:**

**Only a qualified technician should perform repairs. Repairs and service by unqualified persons may cause injury or damage the appliance and may void the warranty.**

## Replacing the Fuse

1. Remove the gray, maintenance cover on the back of the oven (see image).
2. Press on the cover of the fuse holder and rotate it about 20° counterclockwise.
3. Remove the cover of the fuse holder.
4. Remove the fuse from the cover.
5. Replace the fuse with an identical one.
6. Reposition the cover of the fuse holder.
7. Press the cover and rotate it about 20° clockwise.



## Resetting the Safety Thermostat



This oven is equipped with a manually resettable safety thermostat designed to protect the oven from overheating. If triggered, the thermostat completely deactivates the oven to avoid permanent damage.



To reset the safety thermostat, Unscrew the cap counterclockwise. Remove the cap to reveal the reset button. Press the reset button, then replace the cap and screw it clockwise.

If the safety thermostat shuts the oven off, then before turning the oven back on, be sure to verify that the total amps being drawn by all the appliances, lights, etc. on the same circuit do not exceed the amps available on that circuit.

# TROUBLESHOOTING

PROBLEM	SOLUTION
<p>1. Oven will not power on</p>	<ol style="list-style-type: none"> <li>1. Check to make sure unit is properly plugged into the wall outlet.</li> <li>2. Check the wall outlet for a breaker-reset switch.</li> <li>3. With the unit unplugged, press firmly on the thermostat reset switch (<i>see p. 9 of this manual</i>).</li> <li>4. With the unit unplugged, check the fuse holders. Make sure they are locked in place. If the problem is not resolved, then remove the fuses and use a multimeter to check for continuity. Replace the fuses if necessary (<i>see p. 9</i>).</li> </ol>
<p>2. Oven will not heat up to the set temperature</p>	<ol style="list-style-type: none"> <li>1. With the unit unplugged, check that the fuse holders are tight and locked in place (<i>see p. 9</i>).</li> </ol>
<p>3. A02 error code</p>	<ol style="list-style-type: none"> <li>1. With the unit unplugged, press firmly on the thermostat reset switch (<i>see p. 9</i>).</li> <li>2. With the unit unplugged, check the fuse holders. Make sure they are locked in place. Use an electronic safe contact cleaner to clean the fuse holders. If the problem is not resolved, then remove the fuses and use a multimeter to check for continuity. Replace the fuses if necessary (<i>see p. 9</i>).</li> </ol>
<p>4. Loud rattling/scraping sound</p>	<ol style="list-style-type: none"> <li>1. Using a flat screwdriver, tighten the four fan shield bolts inside, rear of the chamber (<i>see picture below</i>).           <div data-bbox="906 1199 1300 1444" data-label="Image">  </div> </li> <li>2. Tighten the thumbscrews on the oven's rack holders (<i>see picture below</i>).           <div data-bbox="912 1570 1300 1797" data-label="Image">  </div> </li> </ol>

For all other problems, unresolved issues, or error codes, please contact technical support at (740) 788-8107, ext. 112.

# Suggested Oven Maintenance

KEL-1300 and 1400 ONLY

## Every 4-6 Months Perform the Following Steps

1. Unplug the oven from the wall outlet.
2. Open the door and tighten the rack rail bolts (total of 2) on both sides of the oven by hand or with padded jaw pliers.
3. Using a flat screwdriver, tighten the fan shield bolts (total of 4) located in the rear chamber of the oven. Two are on the ceiling of the chamber, and two are on the floor of the chamber.
4. Turn the oven on and begin heating to 165 degrees. Let the oven run for 15 minutes.
5. Using an external thermometer with a probe, compare the two readings (oven vs. external thermometer) and see if they agree. The tolerance should be no greater than 5 degrees in either direction during periods of heating up and cooling down. If the tolerance is exceeded, refer to the temperature offset adjustment instructions which can be received upon request by contacting 740-788-8107 Ext. 112. Or email [service@klaritymedical.com](mailto:service@klaritymedical.com)



Rack Rail Bolt



Fan Shield Bolt



# WARRANTY

## 2-YEAR KLARITY AIRFLOW™ CONVECTION OVEN LIMITED WARRANTY

Klarity Medical Products, LLC (“Klarity”) expressly warrants to the original purchaser (“Purchaser”) of a Klarity AirFlow™ Convection Oven (“Oven”) from Klarity or its authorized distributors that EACH OVEN WILL BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP UNDER NORMAL USE AND SERVICE BY PURCHASER FOR A PERIOD OF TWO (2) YEARS FROM THE DATE OF PURCHASE set forth on Klarity’s or its authorized distributor’s applicable invoice (the “Purchase Date”).

TO INITIATE A WARRANTY CLAIM, PURCHASER MUST CALL: (877) 599-8905. Any claim of nonconformity or defect made under this limited warranty must be presented to Klarity promptly in writing setting forth in detail the nature of the nonconformity or defect. Each warranty claim must be preauthorized by Klarity, and must include a Klarity Returns Authorization Number, issued by Klarity. Klarity shall have a commercially reasonable period of time after notice and recognition of a claim of nonconformity or defect to remedy the nonconformity or defect by repair or replacement in accordance with the terms of this limited warranty. Klarity’s obligations are exclusively limited to replacement parts or replacement Ovens, at Klarity’s discretion. These remedies are Purchaser’s exclusive remedies for breach of warranty.

### LIMITED WARRANTY EXCEPTIONS:

**Misuse Limitation:** The limited warranty does not apply in the event of misuse, abuse, improper service, or damage arising from unauthorized repairs. Unless expressly authorized by Klarity in writing, no repairs may be performed on the Oven.

**Wear-and-Tear Item Limitation:** The limited warranty does not extend to normal wear-and-tear items such as light bulbs, fuses, gaskets, glass, and other perishable items (each a “Wear-and-Tear Item”). Wear-and-Tear Items may be replaced by Purchaser and do not qualify for service assistance. Purchaser may contact Klarity at (877) 599-8905 to purchase replacement Wear-and-Tear Items. In the event a Wear-and-Tear Item fails under normal use within the first one hundred and twenty (120) days of the Purchase Date, Klarity may, at its discretion, provide a replacement Wear-and-Tear Item at no additional charge to Purchaser.

**Oven Motor Limitation:** Notwithstanding anything contrary to that set forth above, the duration of the limited warranty is limited to a period of one (1) year from the Purchase Date, in the event a nonconformity or defect arises from or relates to the Oven motor.

**Nontransferable:** The limited warranty is provided exclusively to the Purchaser and may not be assigned or transferred.

**Shipping:** During the first six (6) months following the Purchase Date, Klarity may, at its discretion, pay for shipping costs for replacement parts and replacement Ovens. For the remainder of the applicable limited warranty period, Klarity will not pay for any shipping or other transportation costs. All shipping methods shall be selected by Klarity at its discretion.

NOTWITHSTANDING ANYTHING TO THE CONTRARY CONTAINED HEREIN OR IN ANY OTHER DOCUMENT OR AGREEMENT BETWEEN KLARITY AND PURCHASER, THE WARRANTIES AND LIMITS OF LIABILITY DESCRIBED IN THIS LIMITED WARRANTY ARE IN LIEU OF ALL OTHER WARRANTIES AND LIABILITIES; THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. UNDER NO CIRCUMSTANCE SHALL KLARITY’S LIABILITY TO PURCHASER OR ANY THIRD PARTY ARISING OUT OF OR RELATED IN WHOLE OR IN PART TO THIS LIMITED WARRANTY OR THE OVEN (A) EXTEND TO OR INCLUDE ANY LIABILITY FOR INCIDENTAL, CONSEQUENTIAL, SPECIAL, PUNITIVE, OR OTHER DAMAGES OF ANY KIND OR CHARACTER, INCLUDING WITHOUT LIMITATION LOSS OF REVENUE OR PROFIT, BUSINESS INTERRUPTION, OR LOSS OF OPPORTUNITY; OR (B) EXCEED IN THE AGGREGATE THE TOTAL OF THE AMOUNTS RECEIVED BY KLARITY FOR THE APPLICABLE OVEN IN THE TWO-YEAR PERIOD IMMEDIATELY PRECEDING THE EVENT GIVING RISE TO THE CLAIM.



## **TECHNICAL SPECIFICATIONS**

Finish: Glass front with stainless steel cover

Minimum Temperature 0 °F

Maximum Temperature: 212 °F

Outside dimensions: 80 x 43 x 77 cm (31.5 x 16 x 34.5 in)

Weight: 39kg (86 lbs)

Amperage Draw: 13A

Circuit Breaker Amperage: 20A

## **EC-CONFORMITY DECLARATION**

The EC-Conformity Declaration is provided as a separate document.

Klarity Medical Products, LLC bears full responsibility for the declaration. Any inquiries regarding the declaration should be directed to Klarity Medical Products, LLC.





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