



Project \_\_\_\_\_  
 AIA # \_\_\_\_\_ SIS # \_\_\_\_\_  
 Item # \_\_\_\_\_ Quantity \_\_\_\_\_ C.S.I. Section 114000



# OV500E1 Rotating Single Rack Oven – Electric



## SPECIFIER STATEMENT

The oven shall be of stainless steel construction, manufactured in the United States by Baxter Mfg. The footprint shall be no larger than 55.0"W x 51.0"D x 104.5"H and shall have an integral hood with a minimum of 31.0" overhang to ensure proper vapor capture. The Type I hood must be UL710 Listed and have a single point exhaust. Control panel shall have programmable settings with auto on/off feature and 4-step bake/roast setting.

The oven's heating system shall be designed with a nominal power rating of 34.2kW and shall utilize a bank of 12 tubular Incoloy®-sheathed elements. Elements shall be sized to maximize life, with a maximum watt density of 32W/in<sup>2</sup> and shall be individually removable for ease of service. The oven shall also include a patented self-contained spherical cast steam system which shall convert 1.0 gallon of water into steam within 20 seconds at a temperature of 400°F or better. The oven door shall be field reversible and must utilize three panes of glass in the viewing window to ensure a safe to the touch exterior. A patented adjustable flush floor shall be used for easy access without a ramp. The oven shall be equipped with a diagnostic center with status indicator lights and be equipped with built-in levelers.

The oven will bear the following agency approvals: UL for safety, sanitation, and gas for the U.S. & Canada, UL710 for the hood. The exhaust hood shall meet construction requirements of IMC section 507 and NFPA-96.

## STANDARD FEATURES

- + Halogen lighting in the bake chamber provides better visibility with better bulb life in high temperature environments
- + Programmable digital control with 99 programmable menus
  - Four stage baking
  - Auto on/off control
  - Cool-down mode
- + Energy saving idle mode reduces oven to stand-by temperature when left idle; idle time and stand-by temperature can be customized to maximize energy savings in your operation
- + Three pane viewing window provides safe to touch exterior
  - Dual panes of glass & a low-E coating on the interior of the window reduces the oven's energy use
  - Single exterior pane is hinged to allow cleaning access to both sides
  - Air gap within the door decreases exterior temperatures
- + Stainless steel construction
- + Patented self-contained spherical cast steam system
- + Hood with plenum and single point vent connection for Type II installations
- + Field reversible bake chamber door (left or right hinged to fit your needs)
- + Patented flush floor – no ramp required
- + Oven body shipped whole (hood, steam system & floor are field installed)
  - **Minimum intake:** 104" x 55" x 51" (uncrated)
- + Holds 1 single oven rack
- + Heavy duty rack lift with "soft start" rotation and rack jam warning system
- + Built-in rollers & levelers for easy installation

## OPTIONS & ACCESSORIES

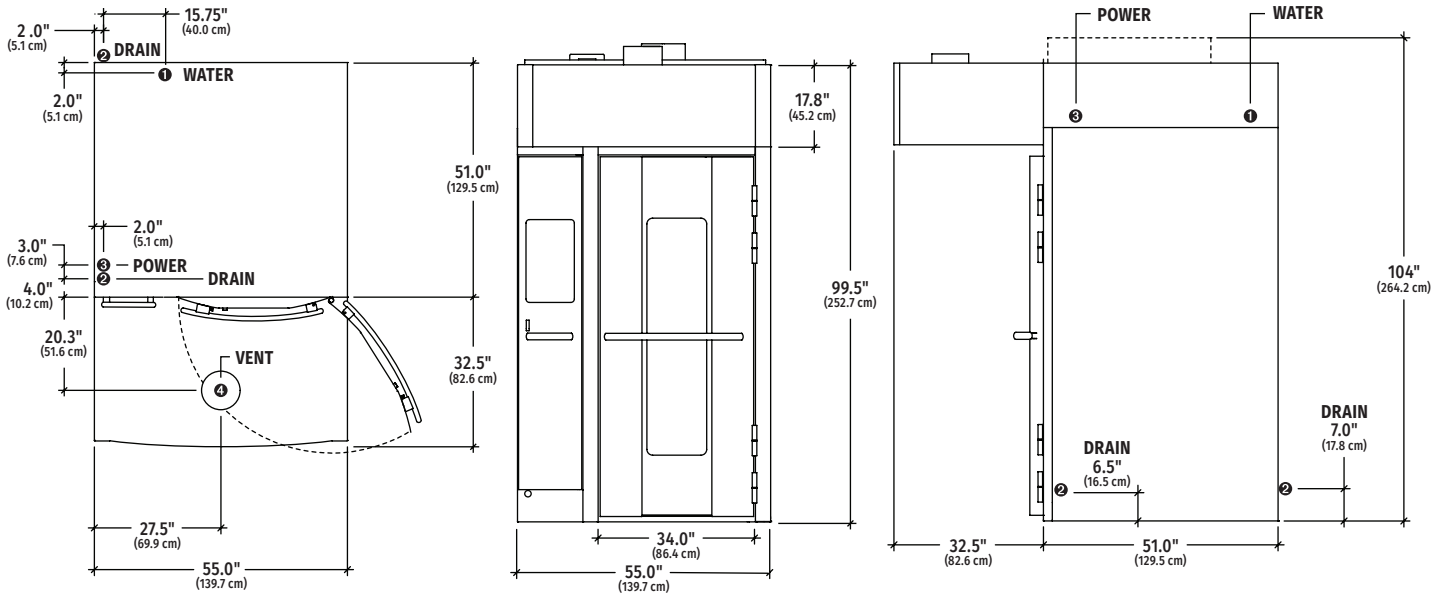
- UL Listed, Type I hood with grease filters; Listed to UL 710 standard and meets requirements of NFPA-96
- Manual back-up control
- Oven body shipped split
  - **Minimum intake:** 104" x 27.5" x 51" (uncrated)
- Kosher package
- Prison package
- Floor extender package
- "C" style lift carrier

OV500E1 ROTATING SINGLE RACK OVEN – ELECTRIC

Approved by \_\_\_\_\_ Date \_\_\_\_\_ Approved by \_\_\_\_\_ Date \_\_\_\_\_



# OV500E1 Rotating Single Rack Oven – Electric



Highest Point on Oven: 104" (265cm)

KD Shipping Weight: 2,905 lbs (1318kg)

Rack Swing Diameter: 34.5" (87.6 cm)

## UTILITIES & NOTES

- ❶ **Water:** ½" NPT connection @ 94" AFF. Cold water @ 30 psi minimum @ 2.0 GPM flow rate. Maximum water usage 4.0 GPH.  
**Note:** Water supply must have the proper hardness, pH & chloride concentration. Consult your local water company and/or water conditioner dealer before installation.
  - **Recommended water hardness range:** 2-4 grains per gallon.
  - **Recommended pH range:** 7.0 to 8.0.
  - **Acceptable range for chloride concentration:** 0-30 ppm.
- ❷ **Drain:** Choose either rear or front drain and plug the connection not in use. Route to air-gap drain.
  - **Front drain:** ½" NPTM @ 6.5" AFF
  - **Rear drain:** ½" NPTM @ 7.0" AFF.
- ❸ **Power: 2 supplies required:**
  1. **Heating Circuit - Choose one:**
    - ❑ 208V/60/3 99.4 amps 34.2kW heating circuit
    - ❑ 208-240V/60/3 75.4-86.2 amps 25.7-34.2kW heating circuit
    - ❑ 440-480V/60/3 40.2-43.0 amps 28.7-34.2kW heating circuit
  2. **Control Circuit:**  
120V/60/1 15 amp dedicated circuit. 20 amp maximum.
- ❹ **Hood vent:** 8" diameter connection collar. Minimum 690 cfm required with -0.6" w.c. static pressure drop through hood. Customer to supply duct and ventilator fan per local code. Oven provided relay with maximum 10.0 amp ½ H.P. @ 120V output for fan operation.

Ventilator fan is required. Consult local authorities to determine whether Type I (grease) or Type II (vapor) duct will be required. Hood connection suitable for connection to single wall vent, except when products of baking are grease laden.

## INSTALLATION

- Floor must be level within ¼" per foot for proper installation. Slope must not exceed ¾" in all directions under the unit. Floor anchors require minimum of 1" thick solid floor substrate. Caution – To reduce the risk of fire, the appliance must be mounted on floors of non-combustible construction with non-combustible flooring and surface finish and with no combustible material against the underside thereof, or on non-combustible slabs or arches having no combustible material against the underside. Refer to ANSI/UL 197 for further clarification.
- Important:**
- Do not route utilities (wiring, plumbing, etc.) in or under the non-combustible floor beneath the oven.
  - 115" AFF required for oven tilt-up.
  - 130" AFF recommended for service access.

**The purchaser is responsible for all installation costs and for providing:** Disposal of packing materials, labor to unload oven upon arrival, installation mechanics, and all local service connections including electricity, gas, water, vents and drain per local code. A factory authorized installation technician must approve any installation during startup. In order to validate the warranty, start-up must be performed by an authorized service company. All services must comply with federal, state, and local codes.

### Minimum clearances to combustible construction:

- 0 inches from sides and back
- 18 inches from top