



# OV500E1

## Rotating Single Rack Oven - Electric

### STANDARD FEATURES

- Stainless steel construction
- Patented self-contained spherical cast steam system
- 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
- Hood with plenum and single point vent connection for Type II installations
- Heavy duty rack lift with "soft start" rotation and rack jam warning system
- Field reversible bake chamber door
- Three pane viewing window provides safe to touch exterior
  - Dual panes of glass & a low-E coating on the interior of the window reduce the oven's energy use
  - Single exterior pane is hinged to allow cleaning access to both sides
  - Airwash gap within the door decreases exterior temperatures
- Flush floor with patented adjustable construction provides easy access – no ramp required
- Built-in rollers & levelers for easy installation
- Oven body shipped whole (hood, steam system & floor are field installed)
  - **Minimum intake:** 55" x 104.5" x 56.3" (uncrated)
- Holds 1 single oven rack



### 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:** 27.5" x 104.5" x 51" (uncrated)
- Floor extender package
- Kosher package
- Prison package

Area Reserved For Consultant & Contractor Approvals



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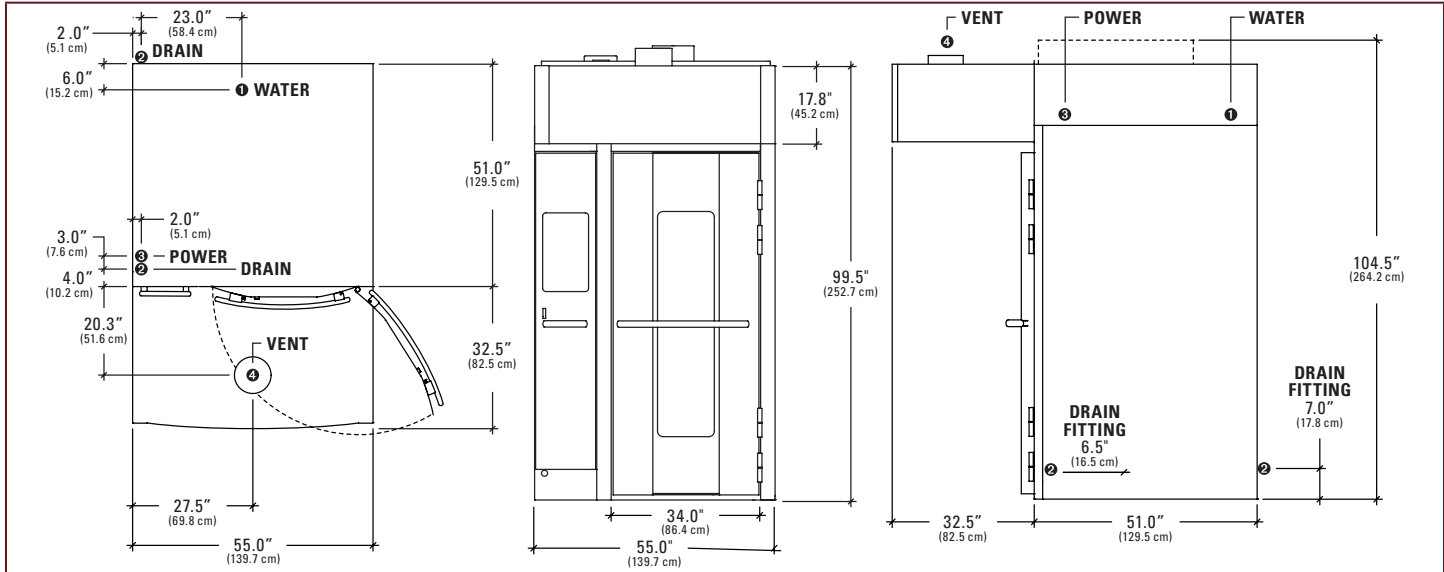
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- Highest Point on Oven: 104.5" (265cm).
- KD shipping weight: 2,905 lbs (1317kg).
- Rack swing diameter: 34.5"
- Freight Class: 70

## UTILITIES & NOTES

- 1 Water:** 1/2" NPT connection @ 94" AFF. Cold water @ 30 psi minimum @ 3.0 GPM flow rate. Max 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.
- 2 Drain:** Choose either rear or front drain and plug the connection not in use. Route to air-gap drain.
  - **Front drain:** 1/2" NPTM @ 6.5" AFF
  - **Rear drain:** 1/2" NPTM @ 7.0" AFF
- 3 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 max.
- 4 Hood vent:** 8" dia. connection collar. Min. 690 cfm req. with 0.6" w.c. static pressure drop through hood. Customer to supply duct and ventilator fan per local code. Oven provided relay with max. 10.0 amp 1/2 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 1/8" per foot for proper installation. Slope must not exceed 3/4" 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 supervise and approve any installation. 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.

## SHORT SPECIFICATION

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.

Manufacturer reserves the right to make changes in sizes and specifications.



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