

Zirconia Rapid Dryer Product Manual



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1. Safety Notice and Warning

Warning: Ignoring the following safety instructions may lead to serious consequences.

1.1 Electrical Safety

- Use a dedicated power outlet rated for AC 220V/50Hz and ensure reliable grounding.
- Do not operate power plugs or device switches with wet hands.
- Keep the device's power cord away from heat sources and sharp edges, and avoid stepping on or heavy pressure.
- Unplug the power cord when not in use for an extended period.

1.2 Operation and Environmental Safety

- Do not dry any flammable, explosive materials or non-designated prosthodontic materials (e.g., resin, wax, etc.).
- Place the device on a stable, sturdy, and well-ventilated workbench, away from water, flammable gasses, and corrosive chemicals.
- Do not place any items unrelated to the operation on the drying tray of the drying chamber.

1.3 Thermal Surface Warning

- The temperature of the inner wall of the drying chamber, the drying tray and the outlet is very high during the operation and the cooling period after the drying.
- It is strictly prohibited to touch internal components or remove workpieces with bare hands during equipment operation or at high temperatures.
- Specialized tools (e.g., heat-resistant tweezers, gloves) must be used, and the device should be allowed to cool to a safe temperature (<60°C, as specified in the instructions) before operation.

1.4 Applicable Parties

- This device is for use by trained professionals only. Unauthorized personnel must not operate it.

1.5 Abnormal Condition Handling

- If the device emits abnormal noises, emits a burnt smell, produces smoke,

- experiences control failure, or shows leakage, immediately disconnect the power supply.
- Do not disassemble or repair the equipment without authorization. All maintenance work must be performed by our company's authorized professional technicians.

2. Product Introduction

2.1 Product Overview

The "YUCERA-Zirconia Rapid Drier" is specifically designed for the field of dental prosthetics, used for precise, uniform, and controllable drying of colored zirconia prostheses (such as crowns, bridges, and inlays) prior to sintering. By effectively removing moisture from the interior and surface of the prostheses, it fundamentally prevents cracks, bubbles, or deformation caused by rapid vaporization of moisture during subsequent high-temperature sintering. This equipment is a critical process for ensuring the final mechanical strength, dimensional accuracy, and esthetic outcome of zirconia prostheses.

2.2 Design Features

- Precise Temperature Control, Smooth Start/Stop: Featuring four carbon fiber soft infrared heating rods, it achieves linear and smooth transitions during heating and cooling cycles. This effectively prevents sudden temperature fluctuations, ensuring stable material properties.
- Even heating and efficient drying: The built-in rotating drying tray ensures uniform heat distribution for every denture. Single crowns dry in as little as 10 minutes, significantly boosting drying efficiency while meticulously preserving denture quality.
- Simple operation, one-touch start: Just set the drying time, press the start button, and it runs automatically—effortless and hassle-free. Process up to 150 dentures per cycle to boost production efficiency.
- Circulating air duct with uniform convection: Equipped with optimized air ducts and high-efficiency fans, it ensures forced circulation of hot air within the chamber, eliminating dry spots and achieving comprehensive, uniform drying.

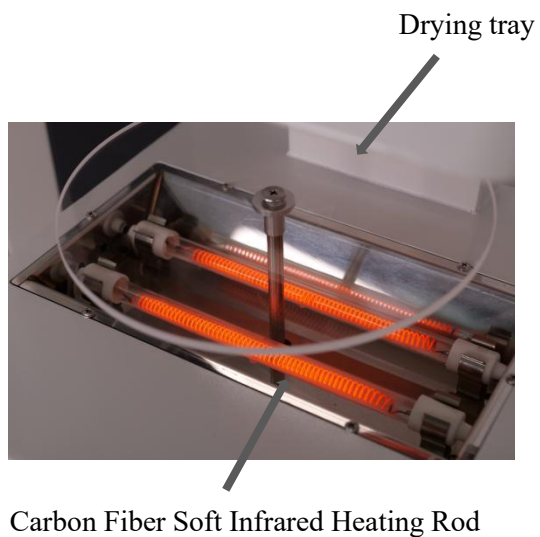
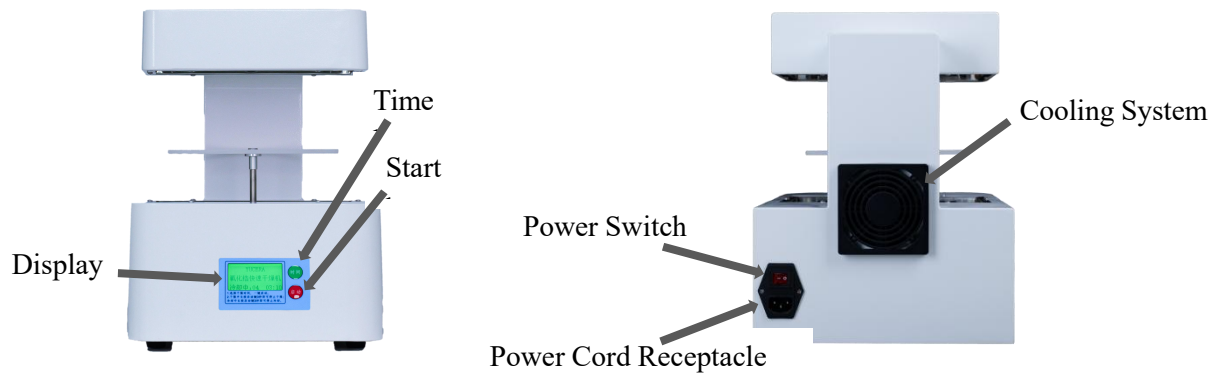
3. Technical Specifications

Number	Project	Specification Parameters
1	product model	YRC-Zirconia Rapid Drying Machine
2	source	AC 220V $\pm 10\%$, 50/60Hz
3	power rating	$\leq 1200W$
4	temperature control range	room temperature-120°C
5	Time range	10 to 20 minutes
6	effective drying zone	$\Phi 200mm$
7	Drying tray material	high temperature quartz glass
8	Device dimensions (W×D×H)	280mm×370mm×375mm
9	Package dimensions (W×D×H)	335mm×430mm×425mm
10	net weight	7KG
11	rough weight	8.68KG
12	display mode	LCD display screen

4. Accessories List

Number	Attachment type	Unit	Quantity
1	power line	1	individual
2	Drying tray	1	individual

5. Equipment Structure and Components



5. Operation Manual

5.1 Unboxing and Installation

- After opening the box, please check all items against the 'Appendix-Accessories List' to ensure completeness and good condition.
- Place the device on a stable, dry, and well-ventilated workbench, maintaining a minimum distance of 50 cm between the back and the wall to ensure proper heat dissipation.
- Ensure the power outlet is properly grounded.

5.2 Preparations for First Use

- Wipe the outside of the device with a clean soft cloth.
- Install the drying tray in place.
- Set the time to 20 minutes without placing any items, and run an empty cycle to remove trace residues from the production process.

5.3 Control Panel Details



Adjust the drying time of the device within the range of 10 minutes to 20 minutes.



- 1、 One-click launch
- 2、 Hold the start button for 3 seconds to stop the drying process.
- 3、 Hold the start button for 3 seconds to stop cooling.

6. Maintenance and Care

- Daily cleaning: After work, wait until the equipment is completely cooled, then wipe the casing and drying tray with a slightly damp soft cloth. The interior cavity can be cleaned by wiping with a soft cloth dipped in a small amount of mild neutral detergent, followed by drying with a dry cloth.
- Regular inspection: Check the power cord for integrity once a month, and inspect the ventilation outlet for dust blockage.
- Long-term disuse: Clean the equipment, disconnect the power supply, and store it in a dry, dust-free environment.
- Prohibited items:
 - The use of steel wool, abrasive powder, or strong acid/alkali cleaning agents for scrubbing any part is strictly prohibited.
 - Do not spray or flush the equipment with water or any liquid.
 - Do not use hard objects to scrape or rub the drying tray.

7. Common Faults and Troubleshooting

Phenomenon	Possible Reasons	Solution
Cannot boot	1. The power supply is not connected.	1. Check the socket, power cord, and main switch of the device
	2. The fuse has blown.	2. Contact the after-sales service to replace the specified fuse
The screen is not on or has no display.	1. Power supply issues	1. Check the power connection
	2. Screen connection failure	2. Restart the device. If it doesn't work, contact customer service
The temperature cannot rise or increases slowly.	1. Heating element failure	1. Contact authorized after-sales service for inspection and repair
	2. Temperature Control System Failure	
Abnormal noise during operation	1. Foreign body in the fan	1. Check and remove foreign objects in the air duct after cooling down
	2. Fan Bearing Failure	2. Contact after-sales service
overheat protection	1. The cooling fan is not working.	1. Contact authorized after-sales service for inspection and repair
	2. Fan filter clogging	2. Removal of Foreign Objects from Fan Filter
Touch screen malfunction	1. Surface stains or moisture	1. Clean the screen with a dry soft cloth
	2. Internal Fault	2. Restart the device. If it doesn't work, contact customer service

Note: If you encounter any issues not listed in the table above or if the above methods fail to resolve them, stop using the service immediately and contact our after-sales department.



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