

UI-TX80 Moisture Regain Oven

1. Application & Test Capabilities

The moisture regain oven, which is also called Rapid Eight-Basket Drying Oven is fully compliant with national standard GB/T 9995, it is designed for rapid determination of moisture regain in various raw textile materials and finished products, including cotton, wool, linen, silk, and synthetic fibers.



2. Features

- **Advanced Heating Technology:** Utilizes semiconductor micro-electric heating elements with minimal thermal inertia, significantly improving temperature uniformity.
- **High Efficiency & Energy Saving:** Adopts forced convection hot-air drying to greatly accelerate the drying process, enhancing operational efficiency and saving energy.
- **Anti-Disturbance Weighing:** Equipped with a unique automatic airflow cut-off mechanism that shuts down airflow when stopped, eliminating air turbulence for accurate weighing results.
- **Precise Temperature Control:** Features an intelligent digital LED temperature controller, offering high accuracy, clear readings, and intuitive operation.

3. Technical Specifications

- **Power Supply:**
AC 380V (Three-phase five-wire system) **OR**
1 phase 220V (220V heating speed is slower than 380V)
- **Heating Power:** 2700 W
- **Temperature Control Range:** Ambient to 150 °C
- **Temperature Accuracy:** ± 2 °C
- **Blower Motor:** 370 W / 380 V, 1400 r/min
- **Electronic Balance:** Capacity 300 g, Readability ≤ 0.01 g
- **Drying Time:** ≤ 40 minutes (For standard textile materials under normal moisture regain, test temperature 105 °C)
- **Air Velocity inside Baskets:** ≥ 0.5 m/s
- **Ventilation Rate:** $> 1/4$ of chamber volume per minute
- **Overall Dimensions (L $\times$ W $\times$ H):** 990 $\times$ 850 $\times$ 1100 mm
- **Chamber Dimensions (L $\times$ W $\times$ H):** 640 $\times$ 640 $\times$ 360 mm

