

# Drying Oven

Fast and stable drying  
High temperature dry heat sterilization



HFS-160

HZS-60

## Scope of Application:

Typically used for drying and sterilization of laboratory consumables, instruments and samples as well as heating and curing, drying and dehydration, heat removal, moisture content determination of materials and samples. The solution is widely used in medical, enterprise, universities, scientific research institutions, environmental monitoring centers, pharmaceutical, food and drug quality monitoring centers and other related industries.

## Innovative Design

- Easy to clean 304 stainless steel interior with wide arc corners
- Multiple security protection
- Personalized interface
- High quality insulation and cabinet construction
- Ergonomic self-locking handle
- Scalable bulk data storage
- Portholes

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## Ergonomic Design



### High thermal insulation performance, energy saving and environmental protection

The unit is manufactured with aluminum foil insulation cotton, which improves the overall insulation performance and reduces energy consumption, lowering costs while also being environmentally-friendly.



### Multiple safety protections

Overheat protection (OPT), over current protection (FU), sensor error detection, independent temperature limit, compliance with DIN 12880 requirements and EU 3.1 safety level. Sound, light and remote alarms guarantee experiment safety.



### Personalized interface, easy to transfer data

Equipped with USB and RS485 interfaces to better meet the different needs of users for transfer data



### Scalable bulk data storage

The touch-screen can be increased to 64GB with capacity to store 15 years' data. The data can be exported using a USB flash drive.



### Precise high temperature control

Superior preheating technology with an innovative air duct structure.



### Smart interface

7-inch intelligent touchscreen with optional IoT technology for real-time remote monitoring via an app.



### Safe and stable

Multiple safety protection features.



### Operation mode

Four operation modes for multiple temperature requirements.

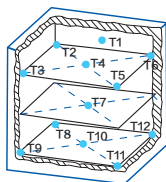
## PID Control Technology



HFS-160  
Forced convection



HZS-60  
Natural convection

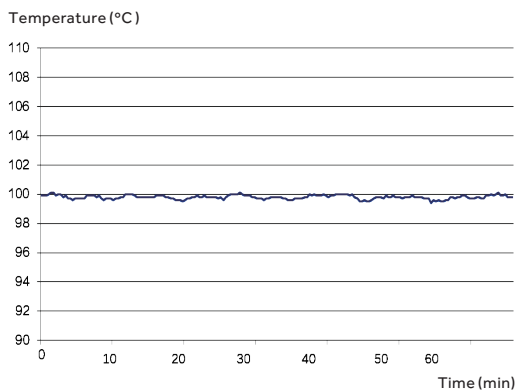


ASTM standard,  
12 points testing

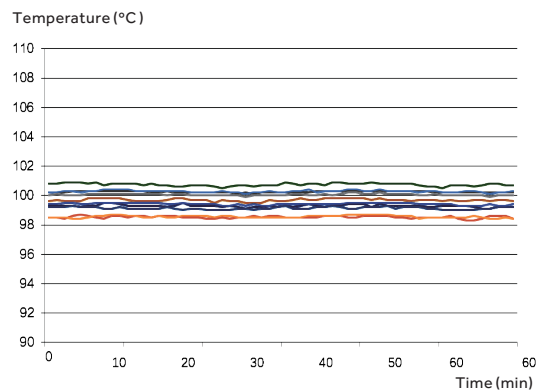
Based on PID control principle, manufactured with U-shaped 3-sided heating to achieve superior temperature control and uniformity control.

## Precise Temperature Control, Energy-efficient and Quiet

High performance 3-sided heating and professional air duct design, high-quality fan components and insulation materials ensures precise temperature control while keeping power consumption to minimum.

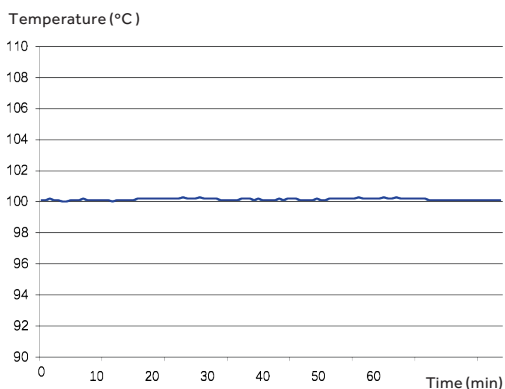


Temperature fluctuation  $\pm 0.3^{\circ}\text{C}$  ( $100^{\circ}\text{C}$ )

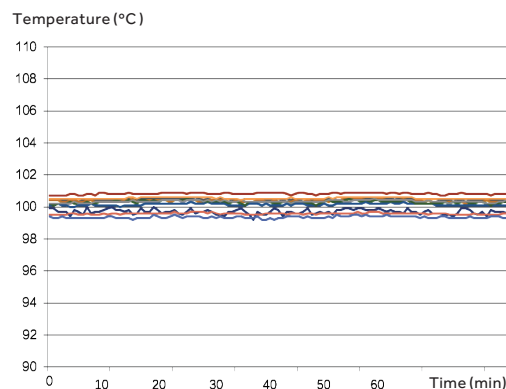


Temperature uniformity  $\pm 2^{\circ}\text{C}$  ( $100^{\circ}\text{C}$ )

**HFS-160**



Temperature fluctuation  $\pm 0.2^{\circ}\text{C}$  ( $100^{\circ}\text{C}$ )

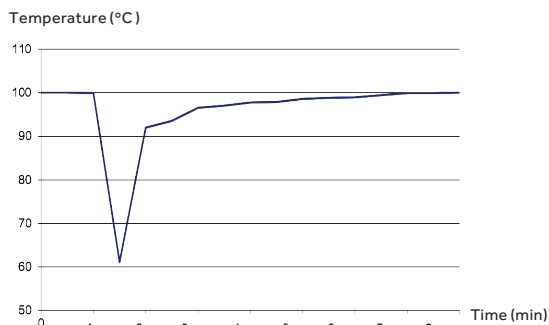


Temperature uniformity  $\pm 1.5^{\circ}\text{C}$  ( $100^{\circ}\text{C}$ )

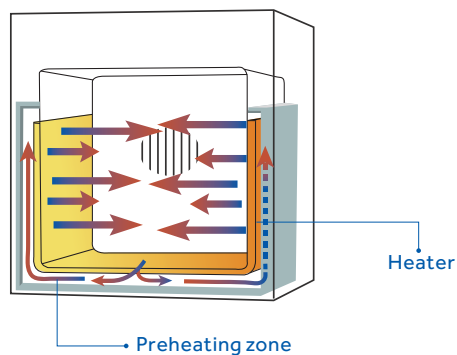
**HZS-60**

## Rapid Recovery After Door Open

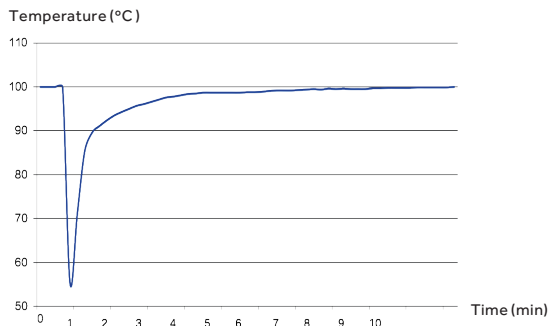
The temperature inside the unit quickly recovers after opening the door without overshoot.



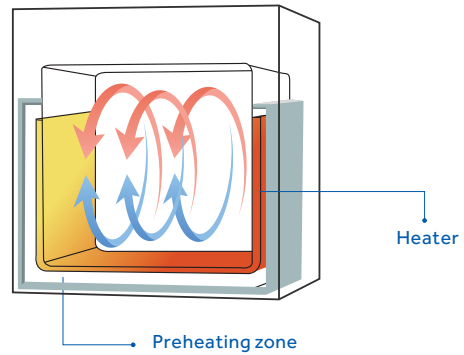
Temperature recovery curve to  $100^{\circ}\text{C}$  after opening the door for 30s



**HFS-160**

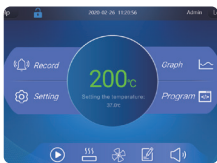


Temperature recovery curve to 100°C after opening the door for 30s

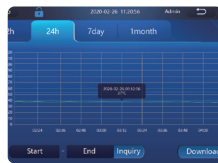


HZS-60

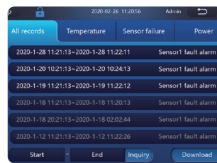
## Convenient and Intelligent Management at a Glance



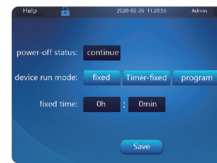
7-inch touchscreen, easy to operate and sensitive, it can respond quickly even when wearing rubber gloves.



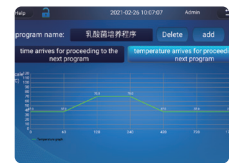
Real-time display of temperature data, one-touch to review previous data.



Records abnormal information in real time, to eliminate hidden errors.



Multiple operating modes.



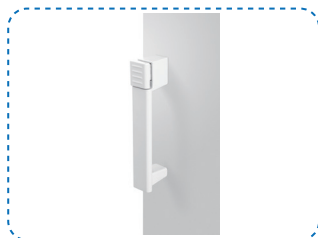
The program can be edited and set at any number of segments to meet the needs of various detection tests.

## Optional IoT Technology for Real-time Remote Monitoring



Through the mobile app, the status of the dry chamber can be checked in real time, and information such as temperature abnormal alarm, sensor error alarm and door ajar can be controlled with one button, which provides more security for the experiment process.

## Pictures in Details



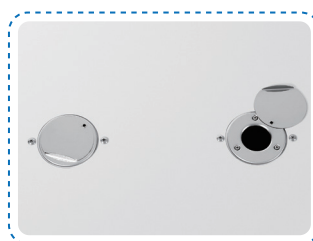
Ergonomic self-locking handle, firm and durable, easy to use.



Large arc angle 304 mirror stainless steel inner liner, easy to clean.



Standard independent intelligent temperature safety controller to ensure experimental safety; RS485 achieves seamless IoT data connection.



It is equipped with portholes to facilitate external equipment monitoring to record the experimental process.

## Product Parameters

| Model   | Product Series     | Capacity (L) | Power (W) | Exterior Dimensions (W*D*H)(mm) | Interior Dimensions (W*D*H)(mm) | Packing Dimensions (W*D*H)(mm) | Shelf Dimensions (mm) | Shelves (standard/maximum) |
|---------|--------------------|--------------|-----------|---------------------------------|---------------------------------|--------------------------------|-----------------------|----------------------------|
| HZS-60  | Natural convection | 60           | 900       | 572*719*792                     | 370*385*420                     | 692*790*945                    | 340*345               | 2/9                        |
| HFS-160 | Forced convection  | 160          | 2500      | 752*809*973                     | 550*492*600                     | 872*880*1125                   | 520*445               | 2/15                       |

| Shelves Spacing (mm) | Temperature Setting Range (°C) | Temperature Uniformity             | Temperature Fluctuation            | Temperature Control Precision (°C) | Heating Rate (ambient temperature 22°C) | Recovery Time after Opening the Door for 30s |
|----------------------|--------------------------------|------------------------------------|------------------------------------|------------------------------------|---|--|
| 30                   | RT+10-200                      | ±1.5°C at 100°C<br>±2.5°C at 150°C | ±0.2°C at 100°C<br>±0.3°C at 150°C | ±0.1                               | 40min to 100°C<br>50min to 150°C        | 9min to 100°C<br>20min to 150°C              |
| 30                   | RT+10-200                      | ±2°C at 100°C<br>±3°C at 150°C     | ±0.3°C at 100°C<br>±0.4°C at 150°C | ±0.1                               | 20min to 100°C<br>30min to 150°C        | 4min to 100°C<br>5min to 150°C               |

Product appearance and specifications are subject to change without notice