Haier Biomedical
Intelligent Protection of Life Science

Constant Climate Dry Chamber

Fast and stable drying
High temperature dry heat sterilization

Precise High Temperature Control: Superior pre-heating technology with an innovative air duct structure.

Operation Mode: Four operation modes for multiple temperature requirements.

Safe and Stable: Multiple safety protection features.

Intelligent IoT (Optional): 7-inch Smart LCD touchscreen; Mobile APP monitors the status of the dry chamber and issues abnormal alarms in real time.

Innovative & Ergonomic Design

◎ Personalized interface

◎ Multiple security protection

◎ Aluminum foil insulation cotton

◎ Scalable bulk data storage

◎ Ergonomic self-locking handle

◎ Large arc angle 304 mirror stainless steel liner

◎ Standard independent intelligent temperature safety controller

◎ Portholes

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## HFS-160 with Forced Convection
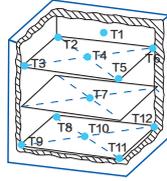
ASTM standard, 12 points testing

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 to ensure precise temperature control while keeping power consumption to a minimum.

Temperature fluctuation ±0.3°C (100°C)
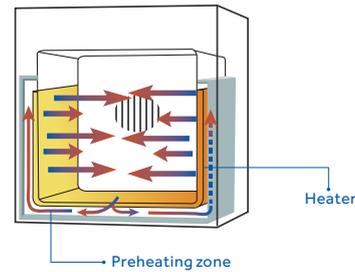
Temperature uniformity ±2°C (100°C)
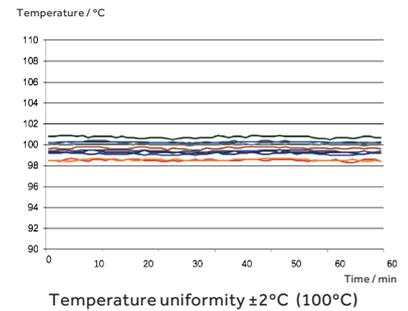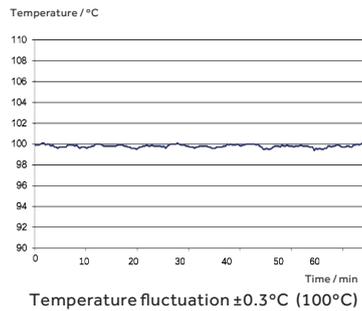
Rapid Recovery After Door Open

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

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

Heater

Preheating zone
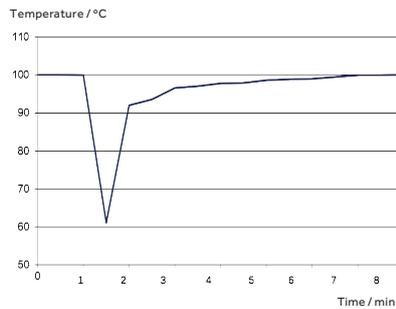
Convenient and Intelligent Management at a Glance

7-inch touchscreen, easy to operate and sensitive, it can respond quickly even when wearing rubber gloves.
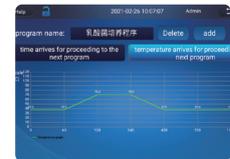
Real-time display of temperature data, one-touch to review previous data.

Records abnormal information in real time, eliminate all hidden trouble and make the drying more secure.
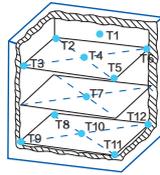
Multiple operating modes.

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

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## HZS-60 with Natural Convection

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

ASTM standard, 12 points testing

Precise Temperature Control, Energy-efficient and Environment-friendly

High performance 3-sided heating and professional air duct design ensures temperature requirements are met while keeping power consumption to a minimum.
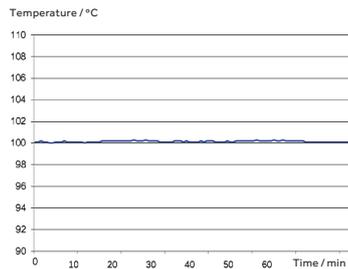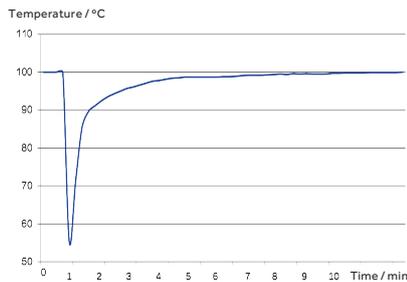
Temperature fluctuation ±0.2°C (100°C)
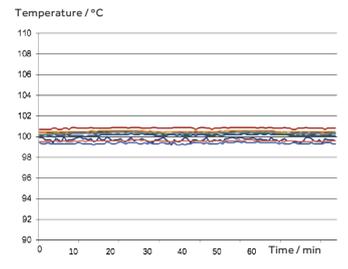
Temperature uniformity ±1.5°C (100°C)

Rapid Recovery After Door Open

The temperature in the chamber can quickly recover after opening the door without overshoot.

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

Heater

Preheating zone
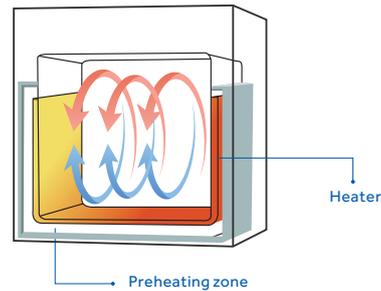
Optional IoT Technology for Real-time Remote Monitoring

Through the mobile app, the status of the dry chamber can be checked in real time, and the 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.

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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 in the fields of medicine, chemical industry, agricultural products as key examples. Other uses include, high temperature heat resistance tests and thermal aging tests of rubber, plastic products and electrical insulation materials. 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.
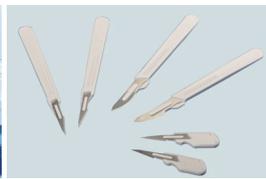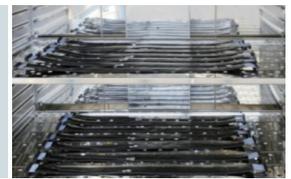
Laboratory consumables   Instruments   Thermal aging test

Ergonomic Design

Personalized Interface, Easy to Transfer Data
Equipped with USB and RS485 interfaces, various interfaces meet the different needs of users to transfer data

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 which guarantee experiment safety.

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.

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)	Exterior Dimensions (W*D*H mm)	Interior Dimensions (W*D*H mm)	Packing Dimensions (W*D*H mm)	Shelf Dimensions (mm)	Shelves (standard/maximum)	Shelves Spacing (mm)
HZS-60	Natural convection	60	572*719*792	370*385*420	692*790*945	340*345	2/9	30
HFS-160	Forced convection	160	752*809*973	550*492*600	872*880*1125	520*445	2/15	30

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
RT+10~230	±1.5°C at 100°C ±2.5°C at 150°C	±0.2°C at 100°C ±0.3°C at 150°C	±0.1	40min to 100°C 50min to 150°C	9min to 100°C 20min to 150°C
RT+5~250	±2°C at 100°C ±3°C at 150°C	±0.3°C at 100°C ±0.4°C at 150°C	±0.1	25min to 100°C 35min to 150°C	6min to 100°C 9min to 150°C