



HFS-60E
HZS-160E



Wide Temperature Range



4-inch Display Screen



Multiple Alarms

Drying Oven

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

- ◎ Precise Temperature Control
- ◎ Fast Drying and Heating
- ◎ Rapid Temperature Recovery After Door Open

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Product Advantages



Wide Temperature Range

Operating from 10°C above ambient temperature up to 250°C



Time-settable

countdown can be configured up to 9999 min



Multiple Safety Protections

Multiple protection systems such as overheating, overcurrent, and independent temperature limiting; overtemperature, high and low temperature and other alarm



PID Control Technology

Ensure superior temperature control and uniformity control



4-inch Display Screen

Intuitive user interface and easy-to-read display

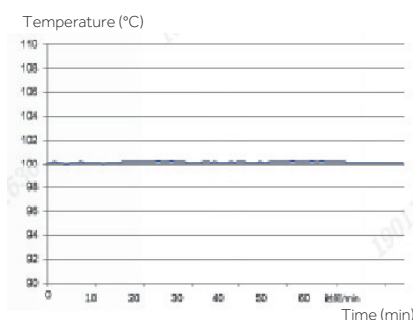


Innovative air Duct Structure

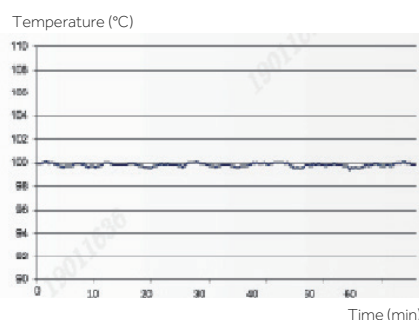
Improved level of temperature uniformity inside the chamber as good as $\pm 2^{\circ}\text{C}$ at 100°C (HFS-60E)

Precise Temperature Control

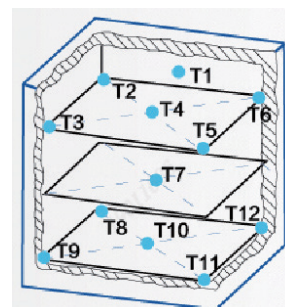
Based on the principle of fuzzy PID control, the product achieves high-precision temperature control. The temperature fluctuation measured using the ASTM standard 12 points temperature detection method is less than 0.3°C . (Test environment temperature 22°C , set temperature 100°C)



Temperature fluctuations $\pm 0.2^{\circ}\text{C}$
(HFS-60E)

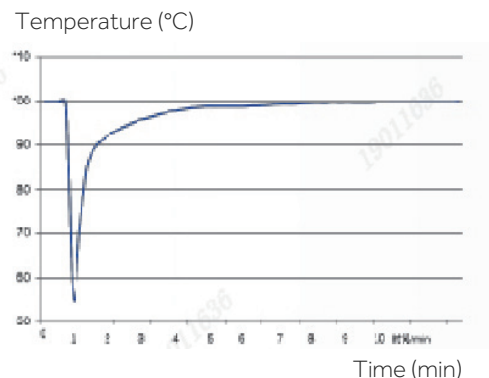


Temperature fluctuations $\pm 0.1^{\circ}\text{C}$
(HZS-160E)

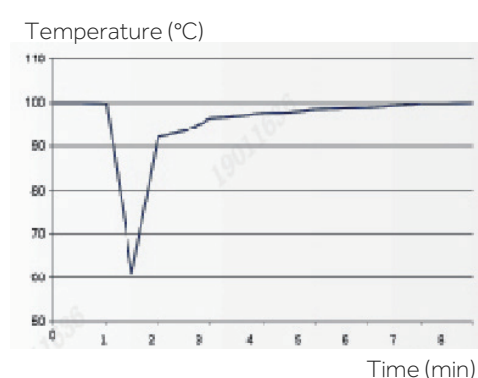


Rapid Temperature Recovery After Door Open

The U-shaped 3- sided heating system provides a continuous source of power for quick temperature recovery when opening the door, and high-performance insulation materials reduces heat loss



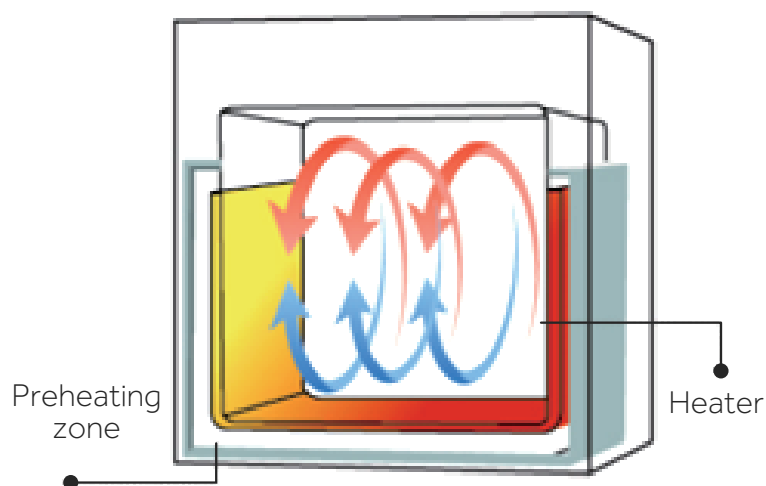
Temperature recovery curve to 100°C after
opening the door for 30s (HFS-60E)



Temperature recovery curve to 100°C after
opening the door for 30s (HZS-168E)

Air Jacket Heating Without Overshoot of Temperature

By adopting pre-heated air jacket heating (HFS-60E), the temperature remains stable and rises quickly without any overshoot, enabling precise temperature control across the entire range of temperature segments, and enhancing the temperature uniformity of the chamber



Pictures In Details



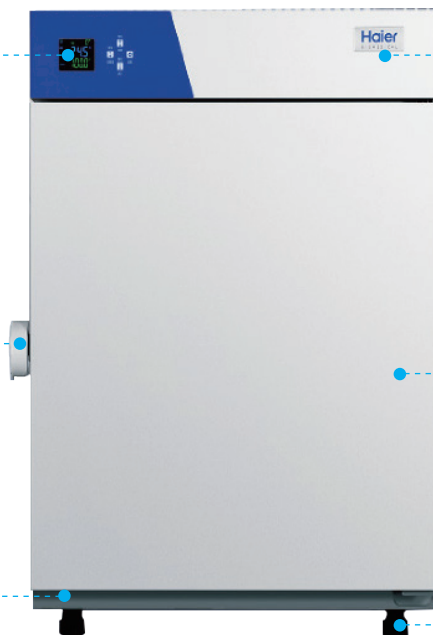
4"LCD screen with simple operation and clear display



New ergonomic handle design



Smooth inner chamber with easy to clean rounded corners



Standard independent intelligent temperature safety controller to ensure experimental safety.



Multiple shelves of adjustable height



Adjustable feet for easy positioning and leveling

Specifications



Model			HFS-60E	HZS-160E
Performance	Control Accuracy	°C	±0.1	±0.1
	Control Range	°C	RT+10~250	RT+10~250
	Temperature Fluctuation	°C	±0.2 at 100	±0.2 at 100
			±0.3 at 150	±0.3 at 150
	Temperature Uniformity	°C	±1.2 at 100	±1.5 at 100
			±2 at 150	±2.5 at 150
	Heating Rate (Ambient 22°C)		20 min to 100°C	40 min to 100°C
			30 min to 150°C	50 min to 150°C
Recovery Time After Open Door for 30s		4 min to 100°C	9 min to 100°C	
		5 min to 150°C	20 min to 150°C	
Control	Heating Mode		Pre-Heating Air Jacket Type	Pre-Heating Air Jacket Type
	Control Principle		Fuzzy PID	Fuzzy PID
	Display		4 inch LCD	4 inch LCD
Electrical	Power Supply (V/Hz)		220-240-50/60	220-240-50/60
	Power (W)		900	1900
Dimensions	Capacity (L/Cu.Ft)		60/2.1	160/5.7
	Net/Gross Weight	Kg	72/80	99/110
		lbs	158/176	217.8/242
	Interior Dimension (W*D*H)	mm	370*385*420	550*492*600
		in	14.6*15.2*16.5	21.7*19.4*23.7
	Exterior Dimension (W*D*H)	mm	572*719*792	752*809*973
		in	22.5*28.3*31.2	29.6*31.9*38.3
	Packing Dimension (W*D*H)	mm	730*800*970	920*890*1150
		in	28.6*32.6*38.1	36.2*35*45.2
	Shelves (Standard/Maximum)		2/9	2/15
	Shelves Dimensions (W*D)		340*345	520*445
	Max. load per shelf	Kg	20	20
Partition Spacing	mm	20	20	
Alarms	Temperature Control Failure		Y	Y
	Timer End		Y	Y
	Sensor Error		N	N
	Door Ajar		Y	Y
	End of Program		Y	Y
	Alarm Mode		Sound and Light / Buzzer	Sound and Light / Buzzer
Accessories	Mechanical Independent Temperature Limiting Switch		Y	Y
	Air Vents		Y	Y
	Porthole		Y	Y
	Observation Window		N	N
	RS485		Optional	Optional
	USB		N	N
	IoT Module		Optional	Optional
Certification	CE		N	N

*Haier Biomedical reserves the right to change products and specifications without prior notice.