



HSP-160
HSP-260



Wide Temperature Range



Multiple Operating Modes



Data Traceability

Cooled Incubator

Scope of Application

The equipment finds extensive use across variety of settings, including the scientific research institutions, university laboratories and production departments, in the realms of environmental conservation, public health and epidemic prevention, agriculture and animal husbandry, drug testing, and aquatic industries. It is highly specialized in cultivation, enabling it to meet the cultivation and preservation of most bacteria, molds, and microorganisms, as well as to serve purposes such as water analysis and biochemical oxygen demand (BOD) determination, and it can also conduct darkroom cultivation of plant tissues.

Innovative Design

- Variable frequency refrigeration: High efficiency and energy saving.
- Intelligent sensing control: Precise temperature control.
- Convenient operation: 7-inch touch screen.

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Product Advantages



Temperature Range

The temperature control ranges from 0°C to +70°C regardless of ambient conditions



Safe and Stable

Multiple protection systems such as overheating, overcurrent, and independent temperature limiting; overtemperature, high and low temperature and other smart alarms for safety



Data Traceability

Data traceable up to 15 years with base storage 8GB and data exportable through USB



Multiple Operating Modes

Meet a variety of experimental requirements.



Smart IoT (Optional)

7-inch intelligent touchscreen with optional IoT technology for real-time checking the operating status via mobile phones or PC, simple and reliable

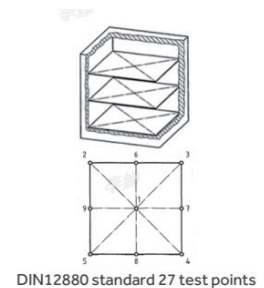


High Thermal Insulation Performance, Energy Saving and Environmental Protection

The chamber features a two doors (one inner door ;another is outer door) configuration and utilizes separate inner liner foam to enhance thermal insulation performance, reduces energy consumption, while also being environmentally friendly

Fuzzy PID Control Technology

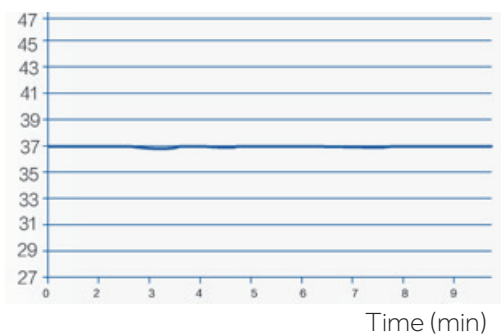
Based on the principle of fuzzy PID control, this product achieves high-precision temperature control. Referring to the DIN 12880 standard, with 27-point testing, the temperature fluctuation is $\pm 0.2^{\circ}\text{C}$ (@37°C, ambient temperature 22°C).



Precise Temperature Control, Energy Efficiency, and Eco-friendly

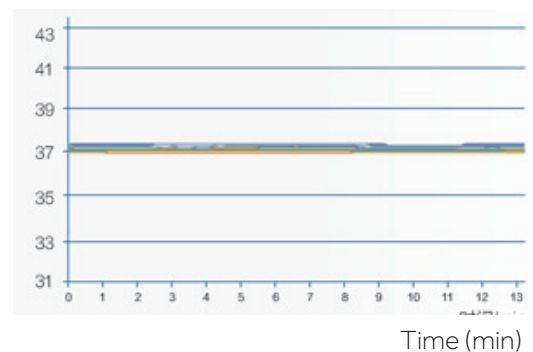
High-quality insulation materials, and professional air duct design to ensure precise temperature control while keeping power consumption to a minimum

Temperature (°C)



The temperature fluctuation is $\pm 0.2^{\circ}\text{C}$
(at 37°C with an ambient temperature of 22°C)

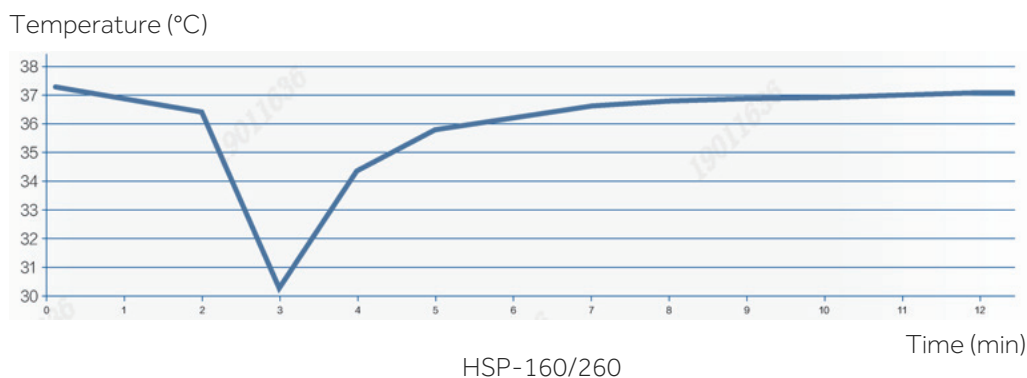
Temperature (°C)



The temperature uniformity is $\pm 0.6^{\circ}\text{C}$

Rapid Temperature Recovery After Door Opening

Rapid warming: the temperature inside the unit quickly recovers after opening the door to reduce the influence of temperature fluctuation on the sample



The temperature rise curve to 37°C after opening the door for 30 sec at 22°C ambient temperature

Detailed Product Pictures



7-inch touch screen
with intuitive operation and display



The rotating handle on the inner door
it convenient to open the door and easy to operate
The design of the glass inner door
Make the observation clear at a glance and minimize the impact on the sample during observation.



Mechanical lock
prevent the door from opening arbitrarily



Adjust shelf
Multi-tier shelf holes, adjustable space utilization
Stainless steel mirror inner
low adhesion, seamless corners, and is easy to clean



Easy to move
The front braking limit sliding bottom angle makes the operation of the equipment stable

Product Parameters



Model			HSP-160	HSP-260
Performance	Temperature Sensor		PT100	PT100
	Control Accuracy	°C	±0.1	±0.1
	Control Range	°C	0~70	0~70
	Temperature Fluctuation (37°C)	°C	±0.2	±0.2
	Temperature Uniformity (37°C)	°C	±0.6 at 37°C	±0.6 at 37°C
	Recovery Time After Open Door for 30s (37°C) Restore to 98%	min	7	7
Control	Heating Mode		Direct heating	Direct heating
	Control Principle		Fuzzy PID	Fuzzy PID
	Display		7" LCD Touchscreen	7" LCD Touchscreen
Electrical	Power Supply (V/Hz)		220-240V-50/60Hz	220-240V-50/60Hz
	Power (W)		1760	1870
Construction	Capacity (L/Cu.Ft)		160/5.7	260/9.2
	Net/Gross Weight	kg	105/135	125/165
		lbs	231.49/297.62	275.58/363.76
	Interior Dimension (W*D*H)	mm	520*568*610	520*568*1000
		in	20.47*22.36*24.02	20.47*22.36*39.37
	Exterior Dimension (W*D*H)	mm	640*800*1255	640*800*1650
		in	25.2*31.5*49.4	25.2*31.5*65.0
	Packing Dimension (W*D*H)	mm	745*865*1440	745*865*1835
		in	29.33*34.06*56.69	29.33*34.06*72.24
	Container load (20'/40'/40'H)		12/28/28	12/28/28
Alarms	Shelves		3/7	4/11
	Shelf Capacity	kg	15	15
	High/Low Temperature		Y	Y
	Over-temperature Protection		Y	Y
	Sensor Error		Y	Y
	Door Ajar		Y	Y
Accessories	End of program		Y	Y
	Alarm Mode		Sound and Light / Buzzer	Sound and Light / Buzzer
	Mechanical Independent Temperature Limiting Switch		Y	Y
	RS485		Y	Y
Optional	USB		Y	Y
	Electromagnetic lock(password)		Y	Y
	Printer		Y	Y
	UV-lamp		Y	Y
Certification	IoT Module		Y	Y
	CE		Y	Y

- The power includes a reserved 1000W for the BOD socket;
- The temperature will return to 98% of the set value after opening the door;
- When the set temperature is less than 20°C, the temperature may fluctuate during the default low-temperature automatic defrosting of the device, which is a normal phenomenon. Do not use it beyond the working environment range.