

Forced Convection Ovens | Precision, 500°C

DH450C/650C/850C

Operating temp. range RT+10~500°C

Temp. distribution accuracy DH450C/650C: ±5°C DH850C: ±8°C

Internal capacity 91L 216L 512L

Fine ovens with a maximum working temperature of 500°C.



Features

- Maximum operation temperature 500°C.
- Easy operation, available for fixed temp., program, quick auto stop, auto stop and auto start operations.
- Digital setting through special function menu keys and up/down keys. 6 modes with 90 segments program controller.
- Overheating protection, deviation correction and key locking through submenu keys.
- Quick exhaust and cooling through exhaust dampers.

Safety

- Self-diagnostic circuit (temperature sensor anomaly, heater disconnection protection, automatic overheating preventer, SSR short-circuit protection), overheating preventer, overcurrent leakage protection, key lock and other safety functions.

Specifications

Model		DH450C	DH650C	DH850C	
System		Forced convection and ventilation			
Performance	Operating temp. range	Room temp. +10~500°C			
	GB standard	Temp. fluctuation	±0.2°C (at 300°C), ±0.5°C (at 500°C)		
		Temp. deviation	±1.5°C (at 100°C), ±2°C (at 200°C), ±3°C (at 300°C), ±5°C (at 400°C), ±6°C (at 500°C)		±1.5°C (at 100°C), ±2°C (at 200°C), ±4°C (at 300°C), ±6°C (at 400°C), ±8°C (at 500°C)
	JTM standard	Temp. adjusting accuracy	±0.2°C (at 300°C), ±0.5°C (at 500°C)		
		Temp. distribution accuracy	±3.0°C (at 300°C), ±5.0°C (at 500°C)		±5.0°C (at 300°C), ±8.0°C (at 500°C)
Max. temp. reaching time	Approx. 60 min (to 500°C)		Approx. 80 min (to 500°C)		
Composition	Interior material	Stainless steel plate			
	Exterior material	Cold rolled steel plate with chemical proofing coating			
	Insulating material	Aluminum silicate wool, ceramic fiber blocks, insulation blocks			
	Heater	Alloy heating wire			
		6.0KW	7.8KW	9.0KW	
	Fan blade/motor	Axial flow fan blades, self-cooling high-temperature motor 20W			
	Exhaust port/cable port	Inner diameter 50mm, located at the back side/inner diameter 30mm, located at the back side			
Other additional mechanisms	Exhaust dampers (manual)				
Controllers	Temp. control method	3-stage PID			
	Temp. setting method	Digital setting through special function menu keys and up/down keys to realize			
	Temp. display method	Achieved temp. display: Green 4-digit LED digital display			
		Setting temp. display: Red 4-digit LED digital display			
	Timer	1 min~99 h 59 min and 100~999 h 50 min (including timer waiting function)			
	Operation functions	Fixed temp. operation, auto start, auto stop, program operation			
	Program mode	Program operation 6 modes with a total of 90 segments (30 segments×1, 15 segments×2, 10 segments×3)			
	Additional functions	Deviation correction, key lock, power failure compensation			
	Heater circuit control	SSR drive			
	Sensors	K thermocouple (Temp. controller and overheat protector)			
Safety device		Self-diagnostic circuit (temperature sensor anomaly, heater disconnection protection, automatic overheating preventer, SSR short-circuit), overheating preventer, overcurrent leakage protection, key lock functions			
Specifications	Internal dimensions (W×D×H mm)	450×450×450	600×600×600	800×800×800	
	External dimensions (W×D×H mm)	1200×800×1150	1350×950×1300	1550×1150×1500	
	Internal capacity	91L	216L	512L	
	Shelf load	30kg/layer			
	Shelf layers/shelf support spacing	9 layers/45mm	9 layers/60mm	12 layers/60mm	
	Power supply (50/60Hz) rated current	Single phase AC220V 30A	3 phase AC380V 12.5A	3 phase AC380V 15A	
	Weight	Approx. 160kg	Approx. 250kg	Approx. 320kg	
Accessories	Shelf	Stainless steel wire mesh plate			
		2 pcs			
	Supports	4 pcs			
Options		Shelf plate (1 shelf plate with 2 shelf supports), cable ports (30/50mm), micro printer, data logger, automatic dampers, combination warning lights (standby/running/fault), external communication function (RS485), temperature output terminals (4~20mA), external alarm output terminals, time-up output terminals, central monitoring software, touch screen controller			

1 Sterilizers

2 Granulation and Spray Dryers

3 Muffle Furnaces

4 Ovens

5 Incubators

6 Plasma Equipment

7 Water Purifiers

8 Baths

9 Water Circulators

10 Rotary Evaporators

11 Freeze Dryers & Cold Traps

12 Stirrers & Shakers

13 Washers

14 Analysis and Test Devices

15 Options