

Forced Convection Ovens | Precision, 500°C

DH450C/650C

Operating temp. range RT+10~500°C

Temp. deviation ±6°C (at 500°C)

Internal capacity 91L 216L

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 ▲/▼ keys. Programmable controller with 3 modes.
- 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), independent overheating preventer, overcurrent leakage protection, key lock and other safety functions.

Specifications

Model		DH450C	DH650C	
System		Forced convection and ventilation		
Performance	Operating temp. range	Room temp. +10~500°C		
	GB standard	Temp. fluctuation	±0.5°C (at 300°C), ±1.0°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)	
	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)	
Max. temp. reaching time		Approx. 60 min (to 500°C)		
Composition	Interior material	Stainless steel plate		
	Exterior material	Cold rolled steel plate with chemical proofing coating		
	Insulating material	Aluminosilicate cotton, ceramic fiber blocks		
	Heater	Alloy heating wire	6.0kW 7.8kW	
		6.0kW	7.8kW	
	Fan blade/motor	Axial flow fan blades, self-cooling high-temperature motor 25W		
	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 ▲/▼ keys		
	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, quick auto stop, auto stop, program operation		
	Program mode	Programmable controller with 3 modes (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)			
Safety device		Self-diagnostic circuit (temperature sensor anomaly, heater disconnection protection, automatic overheating preventer, SSR short-circuit), independent overheating preventer, overcurrent leakage protection, key lock functions		
Specifications	Internal dimensions (W×D×H mm)	450×450×450	600×600×600	
	External dimensions (W×D×H mm)	1200×800×1150	1350×950×1300	
	Internal capacity	91L	216L	
	Shelf load	30kg/layer		
	Shelf layers/shelf support spacing	9 layers/45mm	9 layers/60mm	
	Power supply (50/60Hz) rated current	Single phase AC220V 30A	3 phase AC380V 12.5A	
Weight	Approx. 160kg	Approx. 250kg		
Accessories	Shelf	Stainless steel wire mesh plate		
	Shelf	2 pcs	3 pcs	
	Supports	4 pcs	6 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		

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