

Forced Convection Ovens | Large Capacity, Precision, Horizontal

DF811C/1011C, DH811C/1011C

Forced Convection

Automatic Overheating Preventer

Independent Overheating Preventer

Self-diagnostic Function

Key Lock Function

Power Failure Compensation Function

Overcurrent Leakage Circuit Breaker

Operating temp. range DF: RT+10~200°C DH: RT+10~300°C

Temp. deviation DF: ±2°C (at 200°C) DH: ±4°C (at 300°C)

Internal capacity 512L 1000L

Large capacity high-precision constant temperature ovens for thermal processing.



Features

- 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

- With self-diagnostic circuits (temperature sensor anomaly, heater disconnection, automatic overheating prevention, SSR short circuit), overheating preventer, leakage protection switch for overcurrent prevention, key lock, and other safety features.

Specifications

Model		DF811C	DF1011C	DH811C	DH1011C	
System		Forced convection and ventilation				
Performance	Operating temp. range	Room temp. +10~200°C		Room temp. +10~300°C		
	GB standard	Temp. fluctuation	±0.2°C (at 200°C)		±0.3°C (at 300°C)	
		Temp. deviation	±1.5°C (at 100°C), ±2°C (at 200°C)		±1.5°C (at 100°C), ±2°C (at 200°C), ±4°C (at 300°C)	
	JTM standard	Temp. adjusting accuracy	±0.2°C (at 200°C)		±0.3°C (at 300°C)	
		Temp. distribution accuracy	±3.0°C (at 200°C)		±5.0°C (at 300°C)	
Max. temp. reaching time	Approx. 60 min (to 200°C)		Approx. 80 min (to 300°C)			
Composition	Interior material	Stainless steel plate				
	Exterior material	Cold rolled steel plate with chemical proofing coating				
	Insulating material	Aluminosilicate cotton				
	Heater	Stainless steel heating tubes with fins				
		4.5kW	6.0kW	6.9kW	9.0kW	
	Fan blade/motor	Axial fan blades, motor 20W×1	Axial fan blades, motor 20W×2	Axial fan blades, motor 20W×1	Axial fan blades, motor 20W×2	
Cable port	I.D. 30 mm, located on the back					
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 and overheating 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)	800×800×800	1000×1000×1000	800×800×800	1000×1000×1000	
	External dimensions (W×D×H mm)	1500×1015×1340	1700×1215×1540	1500×1015×1340	1700×1215×1540	
	Internal capacity	512L	1000L	512L	1000L	
	Shelf load	30kg/layer				
	Shelf layers/shelf support spacing	15 layers/50mm	19 layers/50mm	15 layers/50mm	19 layers/50mm	
	Power supply (50/60Hz) rated current	3 phase AC380V 7.5A	3 phase AC380V 10A	3 phase AC380V 11A	3 phase AC380V 14.5A	
	Weight	Approx. 350kg	Approx. 450kg	Approx. 350kg	Approx. 450kg	
Accessories	Shelf	Stainless punching mesh plate				
	Supports	3 pcs				
Options		Shelf (1 shelf with 2 supports), cable port (30/50mm), micro printer, data logger, combination warning light (standby/running/fault), automatic vent, viewing window, external communication function (RS485), temperature output terminal (4~20mA), external alarm output terminal, time-up output terminal, centralized monitoring software, touch screen controller				

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