

Explosion-proof Ovens | Explosion-Proof, Precision

DF411SC/611SC, DH411SC/611SC

- Forced Convection
- Automatic Overheating Preventer
- Overheating Preventer
- Self-diagnostic Function
- Key Lock Function
- Power Failure Compensation Function
- Overcurrent Leakage Circuit Breaker

Max. operating temp.	DF: RT+10~260°C	DH: RT+10~360°C	Temp. distribution accuracy	DF: ±2.5°C (at 260°C)	DH: ±3.0°C (at 360°C)	Internal capacity	91L	216L
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Precision constant temperature ovens equipped with explosion pressure relief device.

Features

- Featuring a relief safety door (explosion port) and a robust interlocked door knob for secure body and door fastening.
- Contain the following interlock functions:
The device operates under locked door conditions via the door locking mechanism.
An explosion detection switch is installed on the ceiling; once activated, operation will be interrupted.
- Easy to operate, fixed temp. operation, program operation, quick auto stop operation, auto stop operation, and auto start operation.
- Quick exhaust and cooling through exhaust dampers.

Safety

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



Specifications

Model	DF411SC	DF611SC	DH411SC	DH611SC		
System	Forced convection and ventilation					
Performance	Operating temp. range		Room temp. +10~260°C			
	GB standard	Temp. fluctuation	±0.2°C (at 260°C)			
		Temp. deviation	±2°C (at 100°C), ±3°C (at 200°C), ±4°C (at 260°C)			
	JTM standard	Temp. adjusting accuracy	±0.1°C (at 260°C)			
		Temp. distribution accuracy	±2.5°C (at 260°C)			
Max. temp. reaching time		Approx. 60 min (to 260°C)		Approx. 80 min (to 360°C)		
Composition	Interior material: Stainless steel plate					
	Exterior material: Cold rolled steel plate with chemical proofing coating					
	Insulating material: Glass fiber		Rock wool			
	Heater: Stainless steel heating tubes with fins					
	2.1KW		3.0KW		2.7KW	3.75KW
	Fan blade/motor: Axial fan blades, motor 20W×1					
	Cable port: I.D. 30 mm, located at the back					
Other additional mechanisms: Relief safety door (explosion port), exhaust vent (manual)						
Controllers	Temp. control method: 3-stage PID					
	Temp. setting method: Digital setting through special function menu keys and up/down 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, 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 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)		450×450×450	600×600×600	450×450×450	600×600×600
	External dimensions (W×D×H mm)		1050×630×1250	1200×780×1400	1050×630×1250	1200×780×1400
	Internal capacity		91L	216L	91L	216L
	Shelf load		30kg/layer			
	Shelf layers/shelf support spacing		9 layers/45mm	9 layers/60mm	9 layers/45mm	9 layers/60mm
	Power supply (50/60Hz) rated current		AC220V 10A	AC220V 14A	AC220V 13A	AC220V 17.5A
	Weight		Approx. 78kg	Approx. 109kg	Approx. 78kg	Approx. 109kg
Accessories	Stainless steel wire mesh plate					
	Shelf	2 pcs	3 pcs	2 pcs	3 pcs	
	Supports	4 pcs	6 pcs	4 pcs	6 pcs	
Options	Stand	OP42C	OP62C	OP42C	OP62C	
	Others	Shelf plate (1 shelf plate with 2 shelf supports), cable port (30/50mm), micro printer, data logger, combined warning light (standby/operation/fault), viewing window, external communication function (RS485), temperature output terminal (4~20mA), external alarm output terminal, timer output terminal, central monitoring software, touchscreen controller				

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