Forced Convection Ovens | Precision, Horizontal

DF411C/611C, DH411C/611C

| Operating temp. range | DF: RT+10~260℃ | DH: RT+10~360℃ | Temp. distribution accuracy | DF: ±1.5℃ (at 260℃) | DH: ±2.5℃ (at 360℃) | Internal capacity | 91L | 216L |

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 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
● Equipped with 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	DF411C	DF611C	DH411C	DH611C
System		Forced convection and ventilation			
Performance / GB standard	Operating temp. range	Room temp. +10~260℃		Room temp. +10~360℃	
	Temp. fluctuation	±0.1℃ (at 260℃)		±0.2℃ (at 360℃)	
	Temp. deviation	±1.5℃ (at 100℃), ±2℃ (at 200℃), ±3℃(at 260℃)		±1.5℃ (at 100℃), ±2℃ (at 200℃), ±3℃ (at 300℃), ±4℃ (at 360℃)	
JTM standard	Temp. adjusting accuracy	±0.1℃ (at 260℃)		±0.2℃ (at 360℃)	
	Temp. distribution accuracy	±1.5℃ (at 260℃)		±2.5℃ (at 360℃)	
	Max. temp. reaching time	Approx. 60 min (to 260℃)		Approx. 80 min (to 360℃)	
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 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 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), independent 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)	1050×630×850	1200×780×1000	1050×630×850	1200×780×1000
	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 12.5A	AC220V 17.5A
	Weight	Approx. 112kg	Approx. 156kg	Approx. 112kg	Approx. 156kg
Accessories	Shelf	Stainless steel wire mesh plate			
		2 pcs	3 pcs	2 pcs	3 pcs
	Supports	4 pcs	6 pcs	4 pcs	6 pcs
Options	Stand	OP42/45C	OP62/65C	OP42/45C	OP62/65C
	Others	Shelf (1 shelf with 2 supports) , cable port (30/50mm), micro printer, data logger, combination warning light (standby/running/fault), automatic door, 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			

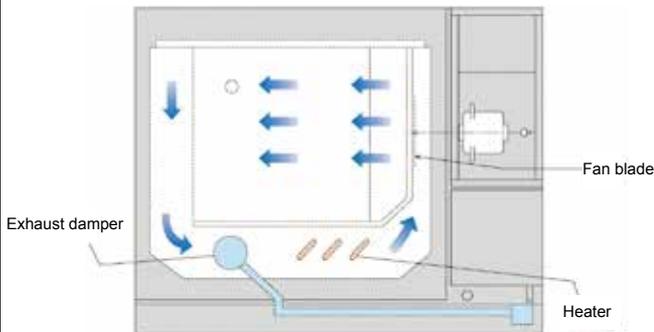| Forced Convection | Automatic Overheating Preventer | Overheating Preventer | Self-diagnostic Function | Key Lock Function | Power Failure Compensation Function | Overcurrent Leakage Circuit Breaker | CE Certification |

Temperature rise curve
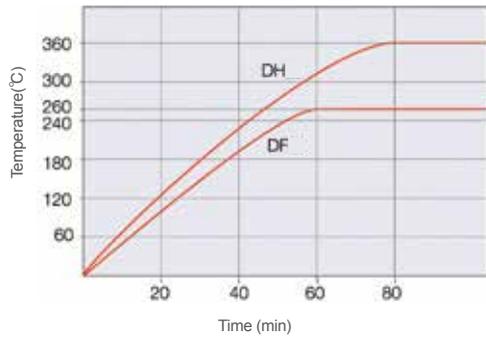
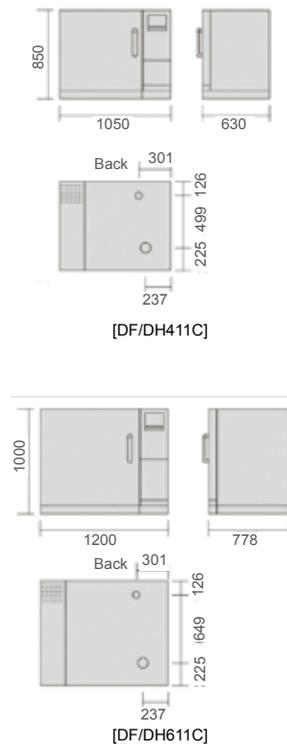## Control panel

Structural diagram

Internal chamber

Options

① Exhaust pipe
② Data logger
③ Observation window

Dimension diagram (mm)

[DF/DH411C]

[DF/DH611C]