Forced Convection Ovens | Precision, Vertical

DFS710C/810C, DHS710C/810C

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	DFS: RT+10~260℃	DHS: RT+10~360℃

Temp. distribution accuracy	DFS: ±2.0℃	DHS: ±3.0℃

Internal capacity	418L	558L

A precision large-capacity constant temperature oven suitable for various temperature characteristic experiments.

Features

Space-saving and large capacity design allows for high-precision temperature control and adaptation to a wide range of temperature variations, applicable for various thermal processing and temperature experiments.

- The space-saving design with the control panel positioned at the top effectively uses the space in experimental rooms and production lines.
- The control panel's key input is dialog-based, making it simple for anyone to complete the settings. The internal temperature during operation can be visually displayed through LED.
- Equipped with various operational functions, primarily program operation. Current functions can be enhanced through options.
- Despite being a large capacity machine, it also features high-performance temperature regulation accuracy. Additionally, control accuracy and drying characteristics are not affected even during venting operation.

Specifications

Model			DFS710C	DFS810C	DHS710C	DHS810C
System			Forced convection and ventilation			
Performance	Operating temp. range		Room temp. +10~260℃		Room temp. +10~360℃	
	GB standard	Temp. fluctuation	±0.1℃ (at 260℃)		±0.2℃ (at 360℃)	
		Temp. deviation	±4℃ (at 260℃)		±5℃ (at 360℃)	
	JTM standard	Temp. adjusting accuracy	±0.2℃ (at 260℃)		±0.3℃ (at 360℃)	
		Temp. distribution accuracy	±2.0℃ (at 260℃)		±3.0℃ (at 360℃)	
	Max. temp. reaching time		Approx. 50min		Approx. 60 min	
Composition	Interior material		Stainless steel plate			
	Exterior material		Cold rolled steel plate with chemical proofing coating			
	Insulating material		Glass fiber		Glass fiber + ceramic fiber	
	Heater		Stainless steel heating tubes with fins			
			4.4 KW	5.4 KW		5.8 KW
	Fan blade/motor		Centrifugal fan blades (with temperature insulation coating)/motor rated at 120W			
	Cable port		Inner diameter: 30mm, located on the right			
Controllers	Temp. control method		PID control			
	Temp. setting method		Digital setting through special function menu keys and up/down keys			
	Temp. display method		Achieved temperature display: Green 4-digit LED, digital display Setting temperature display: Red 4-digit LED, digital display			
	Timer		1 min~99 h 59 min and 100~999 h/1 min or 1 h			
	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		Timer function (actual timing within 24 h)			
	Sensors		K thermocouple (Temp. controller and overheating protector)			
Safety device			Self-diagnostic circuits (temperature sensor anomaly, heater disconnection, automatic overheating prevention, SSR short circuit), independent overheating prevention device, leakage protection, door switch, control cabinet switch			
Specifications	Internal dimensions (W×D×H mm)		620×750×900	620×750×1200	620×750×900	620×750×1200
	External dimensions (W×D×H mm)		770×965×1622	770×965×1922	770×965×1622	770×965×1922
	Internal capacity		418L	558L	418L	558L
	Shelf load		30kg/layer			
	Shelf layers		27 layers	37 layers	27 layers	37 layers
	Shelf plate spacing		30mm			
	Power supply (50/60Hz) rated current		Single phase AC220V 21A	3-phase AC380V 10A		
	Weight		Approx. 150kg	Approx. 170kg	Approx. 150kg	Approx. 170kg
Accessories			Shelf plates (2 stainless steel wire mesh plates), shelf supports (4)			
Options			Shelf plates, viewing windows, micro printers, data loggers, N_2 introduction devices, abnormal alarm indicator lights, emergency stop switch, power failure manual recovery selection, cable ports (50/100mm), exhaust vents (80mm), exhaust flanges, automatic dampers, temperature output terminals, external alarm output terminals, timer output terminals, central monitoring software, touch screen controller			

Internal chamber

Shelf