Industrial & Laboratory Fine Ovens DFS710/810, DHS710/810



DFS710/DHS810

Large volume type. Various heat treatments and characteristic tests of temperature are possible owing to the accurate temperature control and the large range of temperature. As the input system of the control panel is dialogical, anyone can input easily.

- A 16-segment program operation is possible.
- Forced hot air circulation and ventilation by a damper.
- Safety measures are enriched, including self-diagnosis function and an independent superheating prevention device.

Large-capacity type. Optimum for various temperature characteristic tests.

Model					
DFS	DHS				
Operating Temperature Range					
Room temp. +15 to 260 deg.C	Room temp. +15 to 360 deg.C				
Temp. Distribution Accuracy					
±2.0deg.C (at260deg.C)	±3.0deg.C (at360deg.C)				
Internal Capacity					
418L/558L					

■ Specifications

■ Specifications					
Model	DFS710	DFS810	DHS710	DHS810	
Performance					
Circulation method	Forced air circulation and ventilation		Forced air circula	tion and ventilation	
Operating temperature range	Room temp. +15 to 260deg.C		Room temp. +15 to 360deg.C		
Temp. adjustment accuracy	±0.2deg.C(at 260deg.C)		±0.3deg.C(at 360deg.C)		
Temp. distribution accuracy	±2.0deg.C(at 260deg.C)		±3.0deg.C(at 360deg.C)		
Max. temp. reaching time	Approx. 40 min.		Approx. 50 min.		
Components					
Interior material	Stainle	ss steel	Stainle	ess steel	
Exterior material	Cold rolled steel plate with melamine resin baking finish		Cold rolled steel plate with melamine resin baking finish		
Heat insulating material	Glass wool		Glass wool		
Heater	Stainless pipe 4.5kW	heater with fan 5.4kW	Stainless pipe 5.4kW	heater with fan 6.0kW	
Fan type		cco fan			
Motor		type, 100 W	Scirocco fan Condenser type, 100 W		
Cable hole		(left side)). (left side)	
	30 mm 1.D	. (left side)	33 mm 1.L	o. (left side)	
Controller	DID		DID II		
Temp. controller Temp. setting	-	microprocessor th UP/DOWN key	PID control by microprocessor		
method Temp display			Digital setting with UP/DOWN key		
method		n LED and orange LED ondition graphic display by LED	Digital display by green LED and orange LED Operation monitor (operation condition graphic display by LED		
Other display Timer	patte	erns) Hrs. 59 min	patterns) 1 min. to 99 Hrs. 59 min.		
Min. division		or 1 Hrs.	1 min. to 99 Hrs. 39 min.		
Min. division					
Operation function	program operation program operation		operation		
Additional functions	Variable wind velocity function, Calendar timer (max. 24 Hrs.), Integration time (max. 65535 Hrs.), Time display, Amount of electricity saved / carbon dioxide emission / heater operation amount display (Switching display), Power fail recovery mode selection, Store and recall user settings, External communication terminal (RS485)		Variable wind velocity function, Calendar timer (max. 24 Hrs.), Integration time (max. 65535 Hrs.), Time display, Amount of electricity saved / carbon dioxide emission / heater operation amount display (Switching display), Power fail recovery mode selection, Store and recall user settings, External communication terminal (RS485)		
Heater circuit control	Triac zero-cross control		Triac zero-cross control		
Temp. sensor	K-thermocouple (double sensor) K-thermocouple (double sensor)		e (double sensor)		
Safe Device					
Safety countermeasures	overheating prevention), Independe	or, fan, heater, triac, automatic nt overheating prevention, Key lock Door switch, Switch for control box			
Standard					
Internal dimensions (W×Dmm)	620×750	620×750	620×750	620×750	
(Hmm)	900	1200	900	1,200	
External dimensions (W×Dmm)	770×965	770×965	770×965 770×965		
(Hmm)	1,580	1,880	1,580	1,880	
Internal capacity	418 L	558 L	418 L	558 L	
Shelf plate with standard load	Approx. 30kg/piece		Approx. 30kg/piece		
Shelf rest step number	27 steps	37 steps	27 steps 37 steps		
Shelf rest pitch	30	mm	30	mm	
Power source 50/60Hz	200V 200V		200V 200V		
	single phase	Three phase	three phase	three phase	
weight (Approx.)	23A 175 kg	AC17A 190 kg	AC17A 175 kg	19A 190 kg	
	1/3 Rg	170 Kg	170 Kg	170 Kg	
	C4=:1 ·	al wire 2 per	C4-:-1 +	ol veiro. 2 pos	
*	Stainless steel wire, 2 pcs.				
Accessories Shelf plate Shelf bracket		el wire, 2 pcs.	Stainless steel wire, 2 pcs. 4 pcs.		

■ Control Panel



■ Optional items

Remark	Description	Option Model	Main Unit Model No.	Item Code
	Stainless wire shelf (with support 2 pes. loading up to 30 kg/shelf)	-	DFS/DHS Series	211064
	Stainless punching metal shelf (loading up to 15kg/shelf)	-	DFS/DHS Series	211099
	Stainless punching metal shelf (loading up to 15kg/shelf)	ODT14	DFS/DHS Series	212925
•	Automatic Damper	ODH32	DFS/DHS Series	21298
•	Exhaust Duct (80mm dia)	ODH34	DFS/DHS Series	21298
•	Emergency stop switch	ODH36	DFS710	212989
•	Emergency stop switch	ODH62	DFS810/DHS710	21297
•	Digital Recorder, 6 points, sensors are not included	ODH38	DFS/DHS Series	21299
•	Power Cord (10m./pc)	ODH42	DFS810/DHS710/DHS810	21299
•	Power Cord (10m./pc)	ODH58	DFS710	21299
•	External Communication Terminal (RS485)	ODH44	DFS/DHS Series	21299
	External Communication Adapter (changeable to RS232C)	OIN90	DFS/DHS Series	21188
•	Temperature Output Terminal	ODH46	DFS/DHS Series	21299
•	External Alarm Output Terminal	ODH48	DFS/DHS Series	21299
•	Time-up Output Terminal	ODH52	DFS/DHS Series	21299
•	Operation Signal Output Terminal	ODH54	DFS/DHS Series	21299
•	Event Output Terminal	ODH56	DFS/DHS Series	21299
	Additional Sensor (K thermocouple)	ODT48	DFS/DHS Series	21294
	Silicon plug (with one hole)	ODT52	DFS/DHS Series	21294
	Exhaust flange	ODF46	DFS/DHS Series	28106
•	Cable Port, 25mm dia	ODH66	DFS/DHS Series	21297
•	Cable Port, 50mm dia	ODH68	DFS/DHS Series	21297
•	Cable Port, 100mm dia	ODH72	DFS/DHS Series	21297

The item marked "●" in the column of "Remark" shall be ordered together with the main unit.

Shelf (with 2 support)



Stainless Wire (Weight Tolerance 30kg/pc)



Stainless Punching Metal (Weight Tolerance 15kg/pc)



Stainless mesh basket shelf (loading up to 15kg/shelf)