

Industrial & Laboratory Fine Ovens Safety

DF411S/611S & DH411S/611S

DF411S/611S & DH411S/611S have been discontinued.



Fine oven with an explosion preventive vent door

Operating temp. range
Room temp. +10 deg.C to 260 deg.C / Room temp. +10 deg.C to 360 deg.C
Temp. distribution accuracy
+/-3.0 deg.C (at 260 deg.C) (DF) +/-3.0 deg.C (at 360 deg.C) (DH)
Internal capacity
91L (411)/216L (611)

- The product is equipped with a safety door to relief an explosion pressure (explosion preventive vent door) and an interlock door knob that reliably secure the main unit and the door.
- The product is integrated with the following interlock functions:
 - I) Operation can be started by closing the door with the door lock.
 - II) The main power will be shut off when the explosion detection switch on the ceiling is activated.
- Standard functions include program operation and other high precision functions.
- Improved safety functions include the self diagnostic function, the automatic overheat prevention function, and the key lock function.

■ Specifications

Product code	211790	211791	211792	211793
Model	DF411S	DF611S	DH411S	DH611S
System	Forced convection and ventilation			
Performance				
Operating temp. range	Room temp. +10 deg.C to 260 deg.C		Room temp. +10 deg.C to 360 deg.C	
Temp. distribution accuracy	+/-3.0 deg.C (at 260 deg.C)		+/-3.0 deg.C (at 360 deg.C)	
Configuration & function				
Temperature control	PID control with a micro computer			
Operation & control	Fixed operation, auto start operation, auto stop operation, program operation (up to 16 segments)			
Additional functions	Clock display (current time), actual time timer for up to 24 hours, accumulation timer function (accumulated up to 49,999 hours), calibration offset function			
Temp. sensor	K-thermocouple (double sensor)			
Heater	Stainless steel pipe heater with a fan			
Heater capacity	2.1 kW	3.0kW	2.7 kW	3.75 kW
Fan	Axial fan (condenser motor: 20W)			
Cable port	I.D. 30mm (rear panel)			
Heat insulator	Glass wool		Ceramic fiber	
Other additional function	Explosion preventive vent door			
Safety functions	Self diagnostic function (temp. sensor error, heater disconnection, SSR short-circuit, automatic overheat prevention), key lock, independent overheat protection, over-current electric leakage breaker			
Standards				
Internal dimensions (W x D x H)	450 x 450 x 450 mm	600 x 600 x 600 mm	450 x 450 x 450 mm	600 x 600 x 600 mm
External dimensions (W x D x H)	1,050 x 620 x 1,240 mm	1,200 x 780 x 1,400 mm	1,050 x 620 x 1,240 mm	1,200 x 780 x 1,400 mm
Internal capacity	91L	216L	91L	216L
Weight	Approx. 78 kg	Approx. 109 kg	Approx. 78 kg	Approx. 109 kg
Power supply (50/60 Hz)	Single-phase AC200V, 11A(15A)	Single-phase AC200V, 16A(20A)	Single-phase AC200V, 14A(20A)	Single-phase AC200V, 20A(30A)
Accessories				
Shelf	Stainless wire			
	x 2	x 3	x 2	x 3
Shelf peg	4	6	4	6

■ Optional items

Item Name	Product Code
DF/DH411S shelf set	211063
DF/DH611S shelf set	211064