

Inert Ovens | N₂ Replacement, Oxygen-free Heating

DN410IC/610IC

Forced Convection

Automatic Overheating Preventer

Overheating Preventer

Self-diagnostic Function

Key Lock Function

Power Failure Compensation Function

Overcurrent Leakage Circuit Breaker

CE Certification

Operating temp. range RT+15~360°C

Temp. distribution accuracy ±3°C (at 360°C)

Internal capacity 95L 223L

Specific constant temperature ovens for thermal treatment experiments in an oxygen-free environment.



Features

- Support performing high-temperature resistance tests and thermal processing at 360°C.
- Wide operating temperature range, high accuracy in temperature control.
- 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 a total of 90 segments program controller.
- Flow setting and introduction through N₂ flow meter.

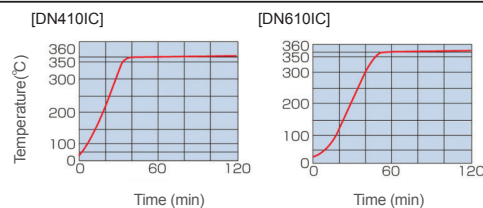
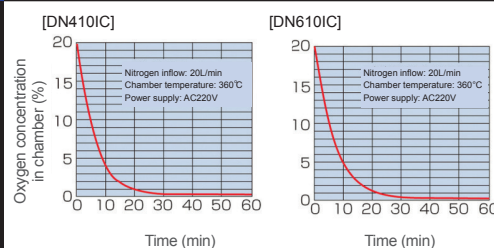
Safety

- 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			DN410IC	DN610IC
System			Forced convection	
Performance	Operating temp. range		Room temp. +10~360℃	
	GB standard	Temp. fluctuation	±0.2℃ (at 360℃)	
		Temp. uniformity	±1.5% (at 360℃)	
	JTM standard	Temp. adjusting accuracy	±0.2℃ (at 360℃)	
		Temp. distribution accuracy	±3.0℃ (at 360℃)	
Max. temp. reaching time		Approx. 60 min		
Composition	Interior material		Stainless steel plate	
	Exterior material		Cold rolled steel plate with chemical proofing coating	
	Insulating material		Rock wool	
	Heater		Stainless steel heating tube, 3.0KW	Stainless steel heating tube, 4.0KW
	Fan blade/motor		Centrifugal fan blades, high-temperature self-cooling motor 30w	
	Flow meter		Maximum flow: 40L/min	
N ₂ inlet interface		Φ8		
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		
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)		470×450×450	620×600×600
	External dimensions (W×D×H mm)		640×695×915	790×846×1065
	Internal capacity		95L	223L
	Shelf load		30kg/layer	
	Shelf layers/shelf support interval		12 layers/30mm	17 layers/30mm
	Power supply (50/60Hz) rated current		AC220V 14A	AC220V 19A
	Weight		Approx. 80kg	Approx. 120kg
Accessories	Shelf		Stainless steel wire mesh plate 2 pcs	
	Supports		4 pcs	
Options	Stand		OH41C	OH61C
	Others		Shelf plate, cable port (30/50mm), micro printer, data logger, combined warning light (standby/operation/fault), viewing window, exhaust vent, external communication function (RS485), temperature output terminal (4~20mA), external alarm output terminal, timer output terminal, central monitoring software	

Temperature rise curve

N₂ replacement performance curveN₂ inlet (outer diameter 9mm)

Inert Fine Ovens | Anaerobic, Oxygen Concentration 5000ppm

DF611IC/DH611IC

Operating temp. range DF: RT+10~260°C DH: RT+10~360°C

Temp. distribution accuracy DF: $\pm 2.0^{\circ}\text{C}$ (at 260°C) DH: $\pm 3.0^{\circ}\text{C}$ (at 360°C)

High-precision constant temperature ovens for thermal treatment in an oxygen-free environment.

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 key. 6 modes with a total of 90 segments program controller.
- Overheat protection, deviation correction and key locking through submenu keys.
- Flow setting and introduction through N_2 flow meter.
- Real-time display of oxygen concentration in the chamber (optional).

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 safety and other functions.



Specifications

Model		DF611IC	DH611IC
System		Forced convection	
Performance	Operating temp. range	Room temp. +10~260°C	
	GB standard	Temp. fluctuation	Room temp. +10~360°C
		Temp. deviation	$\pm 0.1^{\circ}\text{C}$ (at 260°C)
	JTM standard	Temp. adjusting accuracy	$\pm 2^{\circ}\text{C}$ (at 100°C), $\pm 3^{\circ}\text{C}$ (at 200°C), $\pm 4^{\circ}\text{C}$ (at 260°C)
		Temp. distribution accuracy	$\pm 2^{\circ}\text{C}$ (at 100°C), $\pm 3^{\circ}\text{C}$ (at 200°C), $\pm 4^{\circ}\text{C}$ (at 300°C), $\pm 5^{\circ}\text{C}$ (at 360°C)
Composition	Max. temp. reaching time	Approx. 60 min (to 260°C)	
	Lowest oxygen concentration	$\leq 5000\text{PPM}$	
	Interior material	Stainless steel plate	
	Exterior material	Cold rolled steel plate with chemical proofing coating	
	Insulating material	Glass fiber	Rock wool
Controllers	Heater	Stainless steel heating tubes with fins	
	Fan blade/motor	3.0KW	3.75KW
	Cable port	Axial fan blades, motor 20w×1	
	Exhaust vent	I.D. 30 mm, located at the back	
	Intake port	8mm pagoda joint	
Specifications	Temp. control method	Rc3/8 threaded interface	
	Temp. setting method	3-stage PID	
	Temp. display method	Digital setting through special function menu keys and up/down keys	
	Timer	Achieved temp. display: Green 4-digit LED digital display	
	Operation functions	Setting temp. display: Red 4-digit LED digital display	
Accessories	Program mode	1 min~99 h 59 min and 100~999 h 50 min (including timer waiting function)	
	Additional functions	Fixed temp. operation, auto start, auto stop, program operation	
	Sensors	Program operation 6 modes with a total of 90 segments (30 segments×1, 15 segments×2, 10 segments×3)	
	Internal dimensions	Deviation correction, key lock, power failure compensation	
	External dimensions (W×D×H mm)	K thermocouple (temp. controller and overheating protector)	
Options	Internal capacity	600×600×600	
	Shelf load	1200×780×1000	
	Shelf layers/shelf support interval	216L	
	Weight	30kg/layer	
	Power supply (50/60Hz) rated current	9 layers/60mm	Approx. 109kg
Others	Shelf	AC220V 14A	AC220V 17.5A
	Supports	Stainless steel wire mesh plate	
	Stand	3 pcs	
	Others	6 pcs	
		OP62C	
		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	

Sterilizers 1

Granulation and Spray Dryers 2

Muffle Furnaces 3

Ovens 4

Incubators 5

Plasma Equipment 6

Water Purification Systems 7

Water Baths 8

Water Circulators 9

Rotary Evaporators 10

Freeze Dryers and Cooling Traps 11

Stirrers & Shakers 12

Washers 13

Analysis and Test Devices 14

Options 15