

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

Operating temp. range RT+10~360°C Temp. uniformity ±1.5% (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 ▲/▼ keys. Programmable controller with 3 modes.
- Flow setting and introduction through N₂ flow meter.

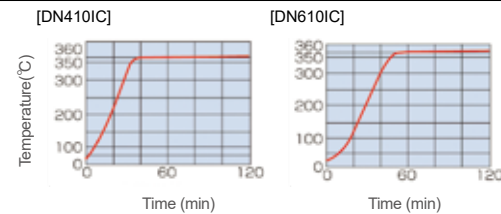
Safety

- 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.

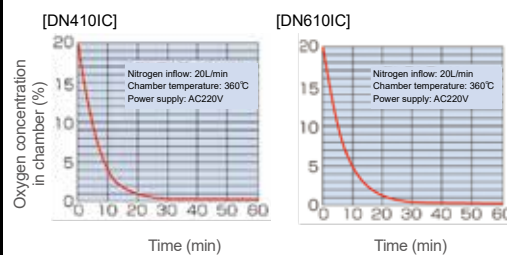
Specifications

Model		DN410IC	DN610IC
System		Forced convection	
Performance	Operating temp. range	Room temp. +10~360°C	
	GB standard	Temp. fluctuation	±0.2°C (at 360°C)
		Temp. uniformity	±1.5% (at 360°C)
	JTM standard	Temp. adjusting accuracy	±0.2°C (at 360°C)
Temp. distribution accuracy		±3.0°C (at 360°C)	
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	Glass wool, 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	
Controllers	N ₂ inlet interface	Φ8	
	Temp. control method	3-stage PID	
	Temp. setting method	Digital setting through special function menu keys and ▲/▼ 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, quick auto stop, auto stop, program operation	
	Program mode	Programmable controller with 3 modes (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 spacing	12 layers/30mm	17 layers/30mm
	Power supply (50/60Hz) rated current	AC220V 14A	AC220V 18.5A
Accessories	Weight	Approx. 80kg	Approx. 120kg
	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 curve



N₂ inlet (outer diameter 9mm)



- Sterilizers 1
- Granulation and Spray Dryers 2
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- Plasma Equipment 6
- Water Purifiers 7
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- Water Circulators 9
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- Stirrers & Shakers 11
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