Inert Ovens | N_2 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℃

Temp. distribution accuracy	±3℃ (at 360℃)

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℃.
- 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 N_2 flow meter.

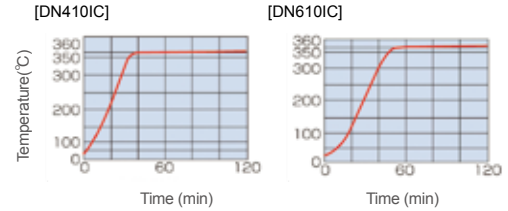
Safety

- 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.

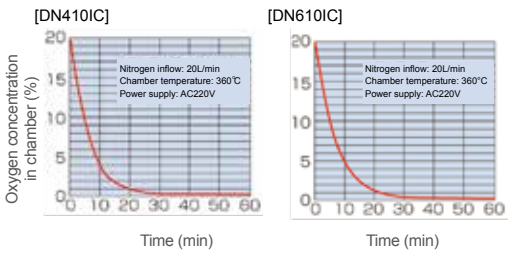
Specifications

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 spacing		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



N_2 replacement performance curve



N_2 inlet (outer diameter 9mm)