

Forced Convection Ovens | High Temp.

DN410HC/610HC

Forced
ConvectionAutomatic
Overheating
PreventerOverheating
PreventerSelf-diagnostic
FunctionKey Lock
FunctionPower Failure
Compensation
FunctionOvercurrent
Leakage Circuit
Breaker

Operating temp. range RT+10~360°C

Temp. distribution accuracy $\pm 3^{\circ}\text{C}$ (at 360°C)

Internal capacity 95L 223L

Reliable constant temperature oven that supports high-temperature thermal tests.

Features

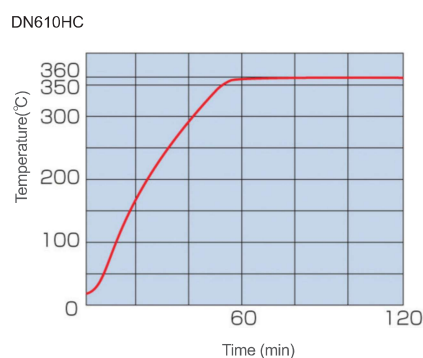
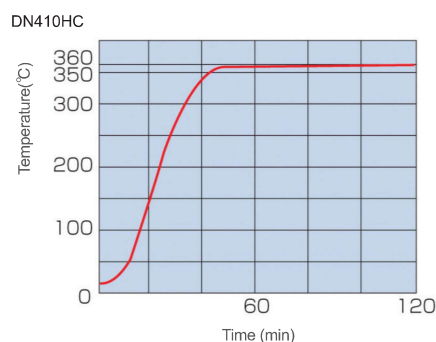
- Support performing high-temperature resistance tests and thermal processing at 360°C.
- Wide operating temperature range, high accuracy in temperature control.
- Easy operation, available for fixed temp., program, quick auto stop, auto stop and auto start operations.
- Digital setting through special function menu keys and up/down keys. 6 modes with 90 segments program controller.

Safety

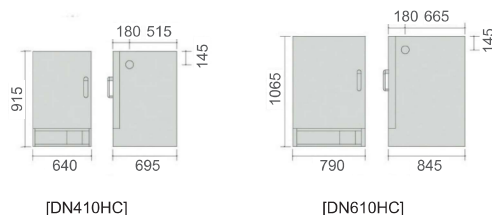
- Self-diagnostic circuit (temperature sensor anomaly, heater disconnection protection, automatic overheating preventer, SSR short-circuit protection), independent overheating preventer, overcurrent leakage protection, key lock and other safety functions.



Temperature rise curve



Dimension diagram (mm)



Specifications

Model			DN410HC	DN610HC
System			Forced convection	
Performance	Operating temp. range		Room temp. +10~360℃	
	GB standard	Temp. fluctuation	±0.1℃ (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	
	Cable port		Inner diameter: 30mm×1, located on the right	
Exhaust vent			I.D. 30 mm×2, located at the back	
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 (1 shelf includes 2 supports) , cable port (30/50mm), micro printer data logger combination warning light (standby/running/fault), viewing window, external communication function (RS485), temperature output terminal (4~20mA), external alarm output terminal, time-up output terminal, centralized monitoring software	

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