

Forced Convection Ovens | Energy-Saving

DNE401C/411C/601C/611C/811C/911C

Operating temp. range RT+10~210°C

Temp. uniformity ±1.5% (at 210°C)

Internal capacity 90L 150L 300L 540L

Power consumption reduced by over 30%, an environmentally friendly constant temperature oven that reduces CO₂ emissions.

Features

- Significantly reduces power consumption and features programmable functions in an environmentally friendly constant temperature oven. Achieves a 30% energy-saving design (compared to previous products) during constant temperature operation through airtight thermal insulation in the chamber.
- Maximum temperature reach time shortened by up to 15 min (compared to previous products). Standby time and recovery time are also reduced, achieving operational efficiency.
- Able to implement various operating modes and is equipped with calibration correction functions, power failure reset mode selection, and user-defined information save and recall functions, among other support features.
- Able to repeat program operation for up to 99 segments or 99 modes. Equipped with accumulated function for powered/operating time.
- Various optional features allow for system upgrades based on user needs.

Safety

- Features self-diagnostic circuits, independent overheating preventers with digital settings, overcurrent leakage protection, key locks, and other safety functions.

Specifications



Model		DNE401C	DNE411C	DNE601C	DNE611C	DNE811C	DNE911C	
System		Forced convection						
Performance	Operating temp. range	Room temp. +10~210°C						
	GB standard	Temp. fluctuation	±0.5°C (at 210°C)					
		Temp. uniformity	±1.5% (at 210°C)					
	JTM standard	Temp. adjusting accuracy	±0.5°C (at 210°C)					
Temp. distribution accuracy		±2.0°C (at 210°C)						
Max. temp. reaching time		Approx. 60 min		Approx. 70 min		Approx. 45 min		
Composition	Interior material		Stainless steel plate					
	Exterior material		Cold rolled steel plate with chemical proofing coating					
	Insulating material		Glass fiber					
	Heater		Stainless steel heating pipe		1.1kW		1.2kW	
	Forced air motor		High-temperature self-cooling motor		10W		30W	
	Cable port		Inner diameter 33mm (one at upper right side)					
	Intake vent		Inner diameter 33mm (one at lower right side)					
Exhaust vent		I.D. 33mm×2, located on the top				I.D. 33mm×2, located at the back		
Controllers	Temp. control method		PID control					
	Temp. setting method		Use special function menu keys and ▲/▼ keys to realize digital setting					
	Temp. display method		Achieved temp. display: Green 4-digit LED digital display Setting temp. display: Orange 5-digit LED digital display					
	Timer/timer resolution		1 min~99 hours 59 min/1 min					
	Operation functions		Fixed temp. operation, auto start, quick auto stop, auto stop, program operation					
	Program mode		Program operation max 99 segments, repeat operation function					
	Additional functions		Power/accumulated running time function (65535 hours), time display, deviation correction function, cumulative power consumption, CO ₂ emission, heater output, cumulative power-on time, power failure recovery mode selection, user defined information login					
Sensors		K thermocouple (Temp. controller)						
Safety device		Self-diagnostic circuit (temperature sensor anomaly, heater disconnection protection, automatic overheating preventer, SSR short-circuit), independent overheating preventer, overcurrent leakage protection, key lock functions						
Specifications	Internal dimensions (W×D×H mm)		450×450×450		600×500×500		600×500×1000	
	External dimensions (W×D×H mm)		580×646×860		730×695×910		730×695×1675	
	Internal capacity		90L		150L		300L	
	Shelf load		15kg/layer					
	Shelf layers/shelf support spacing		11 layers/30mm		13 layers/30mm		29 layers/30mm	
	Power supply (50/60Hz) rated current		AC115V, 10A AC220V, 5.5A		AC115V, 11A AC220V, 6A		AC220V, 11.5A	
Weight		Approx. 63kg		Approx. 77kg		Approx. 92kg		
Accessories	Shelf		Stainless punching mesh plate					
	Supports		2 pcs		4 pcs		8 pcs	
Options	Stand		4 pcs		8 pcs		16 pcs	
	Stacking fittings		ON61C		-		-	
	Others		ODN26C		ODN28C		-	
		Shelf plate (1 shelf plate with 2 shelf supports), cable port (30/50mm), data logger, combination warning lights (standby/running/fault), viewing window, external communication function (RS485), temperature output terminals (4~20mA), external alarm output terminals, time-up output terminals						

1 Sterilizers

2 Granulation and Spray Dryers

3 Furnaces

4 Ovens

5 Incubators

6 Plasma Equipment

7 Water Purifiers

8 Baths

9 Water Circulators

10 Rotary Evaporators

11 Stirrers & Shakers

12 Options

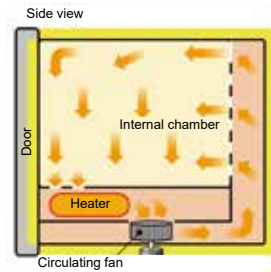
- Forced Convection
- Automatic Overheating Preventer
- Overheating Preventer
- Self-diagnostic Function
- Key Lock Function
- Power Failure Compensation Function
- Overcurrent Leakage Circuit Breaker
- CE Certification



Control panel



Structural diagram



DNE structural diagram

Internal chamber

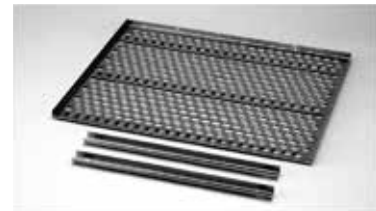


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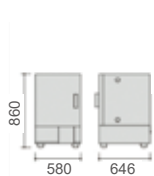
Shelf (support)



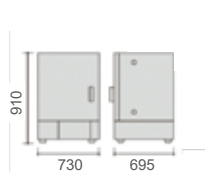
Cable port (standard configuration)



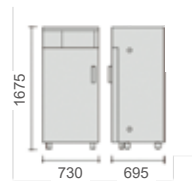
Dimension diagram (mm)



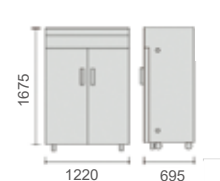
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[DNE911C]

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