

Forced Convection Oven (Energy Saving)

Energy Saving Programmable Forced Convection Ovens

DNE401/411/601/611/811/911

Operating
temp. range

RT +20°C~210°C
DNE401/411/601/611

RT +15°C~210°C
DNE811/911

Temp. distribution
accuracy

±2.0°C (at 210°C)

Internal
capacity

90L
DNE401/411

150L
DNE601/611

300L
DNE811

540L
DNE911

High performance, environment-friendly eco-oven that reduces power consumption significantly.

- Heat tightness and insulation design of the chamber saves 30 to 40% of energy during constant temperature compared to previous models
- Program operation with a maximum of 99 steps, 99 patterns, with repeat function
- Standard equipped with various support functions such as calibration offset, operation time integration, power failure recovery mode, save & access of user setting information and other operation modes
- Maximum 99 steps, 99 patterns program controller with repeat function
- Easy system upgrade with various option settings



Specifications

Product code		212818	212819	212824	212825	212826	212827
Model		DNE401	DNE411	DNE601	DNE611	DNE811	DNE911
Circulation method		Forced air circulation					
Operating temperature range		Room temp. +20 to 210°C				Room temp. +15 to 210°C	
Temp. adjustment accuracy*1		±0.5°C (at 210°C) JTM K05					
Temp. distribution accuracy*1		±2.0°C (at 210°C) JTM K05					
Max. temp. reaching time*1		Approx. 60 min.		Approx. 70 min.		Approx. 45 min.	Approx. 60 min.
Interior/Exterior material		Stainless steel /Electro-galvanized steel sheet with epoxy and melamine resin baking finish					
Heat insulating material		Glass wool					
Heater		Stainless pipe heater		Stainless pipe heater		Stainless pipe heater	Stainless pipe heater
		1.1 kW		1.2 kW		1.2 kW×2	1.5 kW×2
Fan/Motor		Scirocco fan/Condenser type motor					
Cable port		33mm I.D. (the right, upper) 1pc.					
Air in-take port		33mm I.D. (the right, lower) 1pc.					
Exhaust port		33mm I.D.×2 (the top)				33mm I.D.×2(the back)	
Temp. controller		PID control by microprocessor					
Temp. setting method		Digital setting by UP/DOWN key					
Temp display method		Digital Display by Green LED					
Timer/Min.division		1 min. to 99 Hrs. 59 min. /1 min.					
Operation function		Fixed temperature operation, Program operation, Auto start, Auto-stop, Quick automatic stop					
Additional functions		Total operation hours timer (to 65535hrs.), Calendar time (24 hours), Calibration offset, Power discharge, CO2 discharge, Power failure return mode, User configuration information					
Heater circuit control		Triac zero-cross control					
Sensor		K-thermocouple (for temp. adjustment, Individual overheating prevention)					
Safety device		Self diagnosis functions (Temp. sensor abnormal, Heater disconnection, SSR- short, Main relay abnormal, Automatic overheating prevention), Key lock function, Independent overheat prevention, Electric leakage breaker					
Internal dimensions (W×D×Hmm)		450×450×450		600×500×500		600×500×1,000	1,090×500×1,000
External dimensions*2(W×D×Hmm)		580×645×860		730×695×910		730×695×1,660	1,220 ×695×1,660
Internal capacity		90L		150L		300L	540L
Shelf plate with standard load		Approx. 15kg/piece					
Shelf rest step number		11 steps		13 steps		29 steps	29 steps
Shelf rest pitch		30 mm					
Power source 50/60Hz		AC 115V	AC 220V	AC 115V	AC 220V	AC 220V	AC 220V
		single phase		single phase		single phase	single phase
		11A	6A	12A	7A	12A	15A
Weight		Approx. 63 kg		Approx. 77 kg		Approx. 92 kg	Approx. 185 kg
Accessories	Shelf plate	Stainless steel, 2 pcs.				Stainless steel, 4 pcs.	Stainless steel, 8 pcs.
	Shelf bracket	4 pcs. (1 pair - 2 pcs. is fixed)				8 pcs. (Same as left)	16 pcs. (2 pairs are fixed)

The length of the power cord is about 2 meters outside the unit (DNE401/411/601/611) and about 3 meters outside the unit (DNE811/911).

*1 Conditions : Temperature and humidity 23°C±5°C, 65%RH±20% (no load) *2 Do not include protrusions

Forced convection
circulation

Auto overheat
prevention

Independent
overheat protector

Self-diagnosis

Key lock

Power outage
compensation

Overcurrent
ELB



300L
DNE811

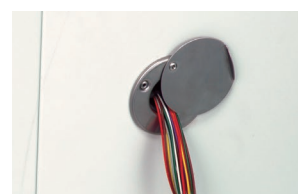


540L
DNE911

Control Panel



Cable Port (Standard, Right side)



Interior



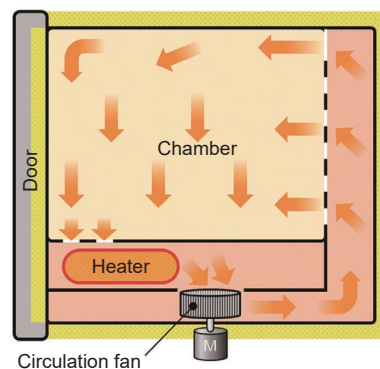
DNE401



DNE911

Method

[Side view]



Optional Items

Model No.	DNE401/411	DNE601/611	DNE811	DNE911
Stand	ON61(211856)		-	
	OT42(212348)	OT62(212349)	-	
Stacking support	ODN26(212806)	ODN28(212807)	-	
Shelf 1 pc. (with support 2 pcs.)	212246	212266	212266	212490
*Cable port, 25mm dia	ODM36(281454)			
*Cable port, 50mm dia	ODM38(281455)			
Sheath sensor	ODT48(212946)			
Silicon stopper	ODT52(212947)			
Seismic isolation rubber	296902		-	
*Observation window	ODM40(281456)	ODM42(281457)	-	
*External communication function (RS485)	ODM12(281442)			ODM14(281443)
*External communication adapter	OIN90(211880)			
*Temperature output terminal (4-20mA)	ODM16(281444)			ODM18(281445)
*External alarm terminal	ODM20(281446)			ODM22(281447)
*Time-up output terminal	ODM24(281448)			ODM26(281449)
*Operation signal output terminal	ODM28(281450)			ODM30(281451)
*Event alarm output terminal	ODM32(281452)			ODM34(281453)

* Please specify when ordering main unit.

Dimensions (Unit:mm)

