

Industrial & Laboratory Constant Temperature Ovens
DNE401/411/601/611/811/911



DNE401/601

Available Various Functions

- Incorporates with maximum 99 steps, 99 patterns program controller with repeat function.
- Loaded with Total Operation Hours Timer
- Data acquisition from internal test device is easy because of cable holes

High-performance, energy-saving, programmable constant temperature, forced convection ovens.

Due to high precision control system, high performance temperature control is realized, and the CO2 discharge, power discharge also displayed at the monitor.

The DNE series represents forced convection constant temperature oven. They achieve an energy-saving rate of 30 to 40% compared to previous models.

Model			
401/411	601/611	811	911
Operating Temperature Range			
Room temp. +20deg.C to 210deg.C			
Temp. Distribution Accuracy			
±2.0deg.C (at210deg.C)			
Internal Capacity (L)			
90	150	300	540

■ Specifications

Model	DNE401/411	DNE601/611	DNE811	DNE911
Performance				
Circulation method	Forced air circulation			
Operating temperature range	Room temp. +20 to 210deg.C		Room temp. +15 to 210deg.C	
Temp. adjustment accuracy	±0.5deg.C (at 210deg.C)			
Temp. distribution accuracy	±2.0deg.C (at 210deg.C)			
Max. temp. reaching time	Approx. 60 min.	Approx. 70 min.	Approx. 45 min.	Approx. 60 min.
Components				
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, 1.1 kW	Stainless pipe heater, 1.2 kW	Stainless pipe heater, 1.2 kW×2	Stainless pipe heater, 1.5 kW×2
Fan Type	Scirocco fan			
Motor	Condenser type,10W		Condenser type,30W	Condenser type,30W×2
Cable hole/Air in-take hole	33mm I.D. (the right side) 1pc.			
Exhaust port	33mm I.D.×2(the top)		33mm I.D.×2(the back)	
Controller				
Temp. controller	PID Z control by microprocessor			
Temp. setting method	Digital setting by UP/DOWN key			
Temp display method	Digital Display by Green LED			
Timer/Min.division	0 min. to 99 Hrs. 59 min. /1 min.			
Operation function	Fixed temperature operation, Program operation, Auto start, Auto-stop, Quick Automatic stop			
Program mode	Program operation; Maximum 32 steps, Repeat function			
Additional functions	Timer Function (Actual Timer within 24hrs.), 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			
Safe Device				
Safety countermeasures	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 with over current protection			
Standard				
Internal dimensions (W×D×Hmm)	450×450×450	600×500×500	600×500×1,000	1,090×500×1,000
External dimensions (W×D×Hmm)	580×645×860	730×695×910	730×695×1,660	1,220 ×695×1,660
Internal capacity	90 liters	150 liters	300 liters	540 liters
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 100V/AC200V	AC 100V/AC200V	AC 200V/220V	AC 200V/220V
	single phase	single phase	single phase	single phase
	12A/6A	14.5A/7.5A	13A/11.8A	16A/14.5A
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)

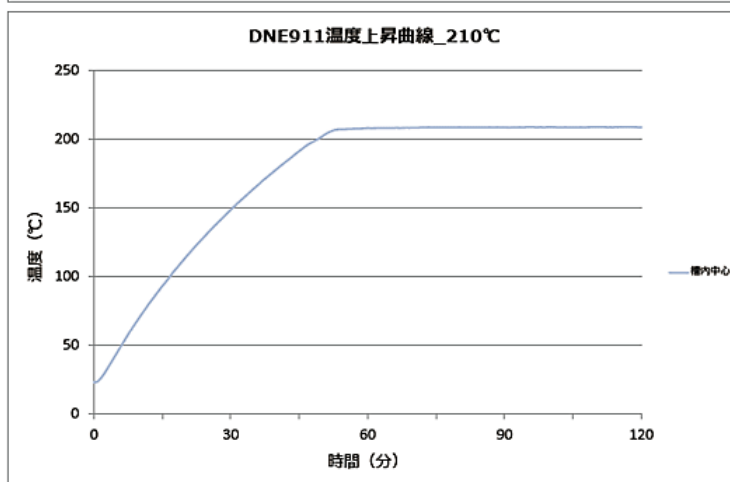
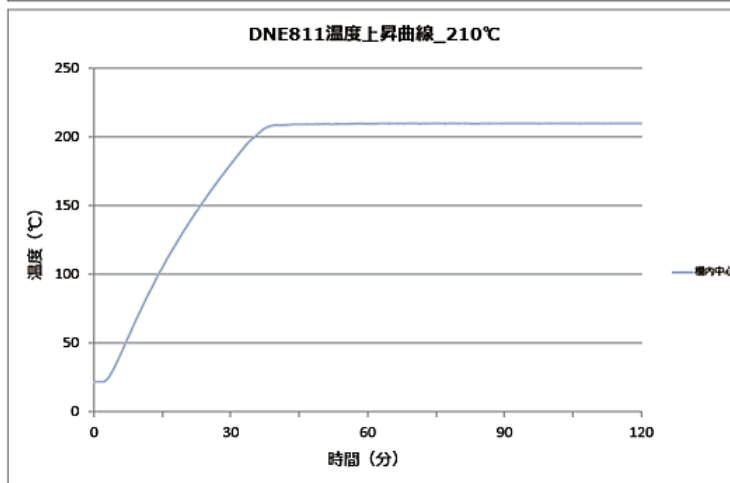
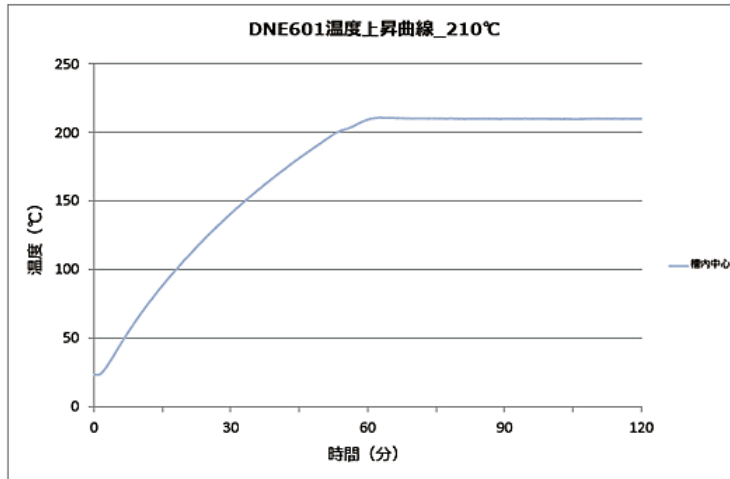
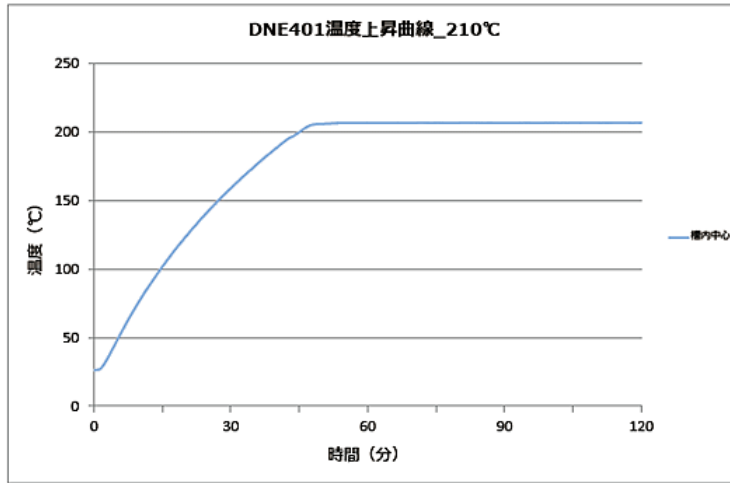
* The performance shown here is the value under the condition of the ambient temperature of 23deg.C±5deg.C, humidity of 65%RH±20%.

* The projection is not included for Internal dimensions and External dimensions.

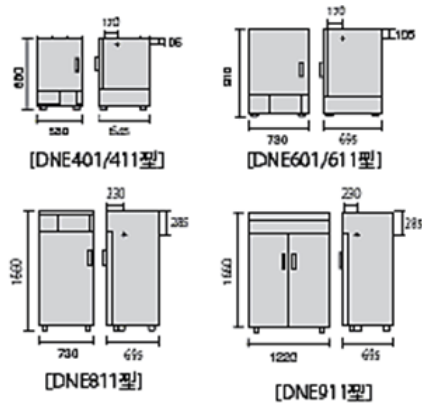
■ Control Panel



Temp.Rising Curve



■ Dimensions (mm)



■ Optional items

Model No.	DNE401/411	DNE601/611	DNE811	DNE911
Stand	ON61(211856)			-
	OT42 (212348)	OT62 (212349)		
Stacking support	ODN26 (212806)	ODN28 (212807)		-
Shelf (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)
Working signal output terminal		ODM28(281450)		ODM30(281451)
Event alarm output terminal (4 points output)		ODM32(281452)		ODM34(281453)

Stand



ON Model



OT Model

Mounting Parts



Shelf (with 2 support)



Stainless Punching Metal
(Weight Tolerance 15kg/pc)