

Forced Convection Oven

Energy Saving Programmable Forced Convection Ovens

DNE401/410/601/610/810/910

Operating temp. range RT +10°C~210°C (DNE410/610/810/910)
RT +20°C~210°C (DNE401/601)

Temp. distribution accuracy ±2.0°C (at 210°C)

Operation Energy saving
Environment friendly

Environment friendly Eco-Oven with lower power consumption and lower CO₂ emission

Operation and functions

- Program featured eco-oven to reduce power consumption significantly
- Heat tightness and insulation design of the chamber make the oven save 30% of energy during constant temperature (compared to previous models)
- Maximum temperature reaching time up to 15 minutes shorter (no-load) compared to previous models. More efficient with less standby time and recovery time
- High airtightness, dust can hardly enter the chamber
- Standard equipped with constant operation, program operation, Auto-stop, Auto-start and Quick auto stop (for DNE401/601)
- Temperature and time setting displayed by fluorescent display, enriched with calibration offset function
- Easy system upgrade with various option settings

Safety features

- Standard equipped with various self-diagnostic functions such as independent overheat prevention device, overcurrent circuit breaker, and key lock function



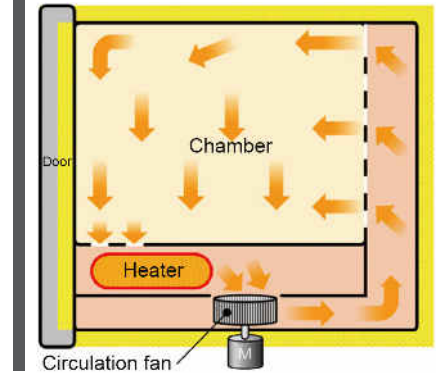
Specifications

Model	DNE401	DNE410	DNE601	DNE610	DNE810	DNE910
Circulation method	Forced air circulation					
Operating temp. range	RT+20°C to 210°C	RT+10°C to 210°C	RT+20°C to 210°C	RT+10°C to 210°C		
Temp. adjustment accuracy	±0.5°C (at 210°C)					
Temp. distribution accuracy	±2.0°C (at 210°C)					
Max. temp. reaching time	~60 min.		~70 min.	~60 min.	~45 min.	~60 min.
Interior/Exterior material	Stainless steel / Electro-galvanized steel sheet with epoxy and melamine resin baking finish					
Heater / insulating material	Stainless pipe heater / Glass wool					
	1.1kW		1.2kW	1.34kW	1.2kW x 2	1.5kW x 2
Fan Type	Sirocco fan, Condenser type motor					
	10W				30W	30W x 2
Cable hole (right side)	33mm I.D. 1pc.	30mm I.D. 1pc.	33mm I.D. 1pc.	30mm I.D. 1pc.		
Air in-take hole (right side)	33mm I.D. 1pc.	30mm I.D. 1pc.	33mm I.D. 1pc.	30mm I.D. 1pc.		
Exhaust port	33mm I.D. 2pcs. (top)	30mm I.D. 2pcs. (top)	33mm I.D. 2pcs. (top)	30mm I.D. 2pcs. (top)	30mm I.D. 2pcs. (rear)	
Observation window	Optional for DNE401/410/601/610					
Temp. controller	PID control by microprocessor					
Temp. setting method	Digital setting by ▲/▼ key					
Temp. / Info display	Orange 4 digit LED digital display (for DNE410/610/810/910) (1°C resolution) Green 4 digit LED digital display (top screen) and orange 5 digit LED digital display (bottom screen) (for DNE401/601)					
Timer / Min.division	1 min. to 99 Hrs. 59 min. / 1 min.					
Operation function	Fixed temperature, Program operation, Auto-start, Auto-stop (for all models), Quick auto stop (for DNE401/601)					
Additional functions	Timer, Integration time function, Calendar time, Calibration offset function, Time display (for all models), Display of power consumption, CO ₂ discharge and heater operation, Power failure return mode, User configuration information (for DNE401/601)					
Heater circuit control	Triac zero-cross control					
Sensor	K-thermocouple					
Safety device	Self diagnostic 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					
Internal dimensions (W×D×Hmm)	450×450×450		600×500×500		600×500×1000	1090×500×1000
External dimensions(W×D×Hmm)	580×646×860		730×696×910		730×696×1675	1220 ×696×1675
Internal capacity	90L		150L		300L	540L
Shelf plate with standard load	~15kg/pcs.					
Shelf rest step number / Shelf rest pitch	11 steps / 30mm		13 steps / 30mm		29 steps / 30mm x 2	
Power source 50/60Hz	AC115V 11.5A	AC220V 5.5A	AC115V 14A	AC220V 7A	AC220V 12A	AC220V 15A
Weight	~60kg		~77kg		~112kg	~178kg
Shelf plate	Stainless steel, 1pc on the bottom screwed (DNF910, 2 pcs)					
Shelf plate / bracket	2 pcs. / 4 pcs.				4 pcs. / 8 pcs.	8 pcs. / 16 pcs.



Method

[Side view]



Interior



DNE401



DNE910

Control Panel



For DNE410/610/810/910

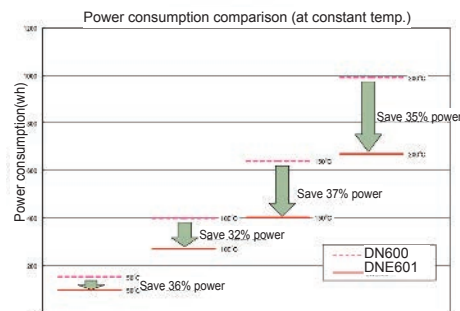


For DNE401/601

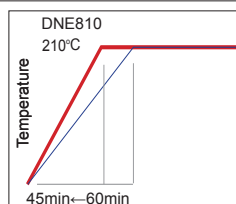
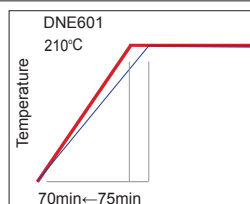
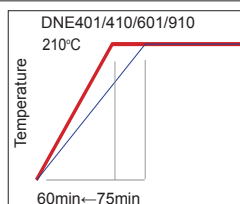
Cable Port (Standard)



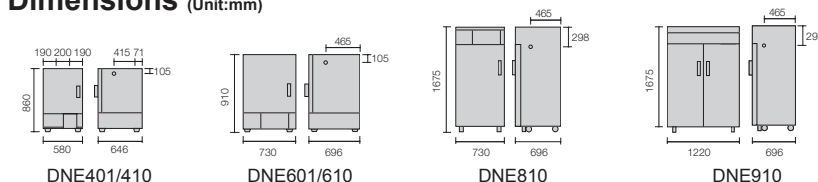
Power Consumption (Save 1/3 Power)



Temperature Rising Curve



Dimensions (Unit:mm)



Attention

- Never use in flammable or explosive gas atmosphere.
- Never use explosive or flammable material.
- Caution: High temperature components.

Optional Items

Product name	Product code
ON61 Stand for DNE401/410/601/610	211856
OT42 Stand for DNE401/410	212348
OT62 Stand for DNE601/610	212349
Stacking support for ODN26 DNE401/410	212806
for ODN28 DNE601/610	212807
Shelf (with brackets 2 pcs.) for DNE401/410	212246
for DNE601/610/810	212266
for DNE910	212490
* Cable port, 25mm dia	281020
* Cable port, 50mm dia	281021
Seismic mat for DNE401/410/601/610	296902
*Observation window for DNE401/410	281025
*Observation window for DNE601/610	281026
*External communication function (RS422A)	281027
*External communication adapter (changeable to RS232)	281028
*Temperature output terminal	281029
*External alarm terminal	281030
*Time-up output terminal	281031
*Individual alarm output terminal (4 points output)	281034
*Air speed changeable function (DNE910 not included)	281036

* Please specify when ordering main unit.