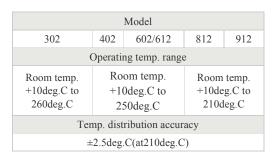
# Industrial & Laboratory Constant Temperature Ovens DKN302/402/602/612/812/912



Forced convection ovens of standard type, Programmable.

A forced convection, programmable constant temperature oven incorporating programmable operation functions and a wide range of other function, and boasting enhanced safety features and operability.



#### DKN402/602

- Fixed setting, programmed, Quick Auto stop, Auto stop, and Auto start operating modes are possible, along with easy control capabilities.
- Settings can be made digitally using the dedicated operation menu keys or the keys. Incorporates a 30-step, 3-pattern program controller with repeat functions.
- Over-heating prevention and calibration offsetting are possible through the auxiliary functions.
- Comprehensive safety features.

## Specifications

	DKN302	DKN402	DKN602/612	DKN812	DKN912	
Performance						
Circulation method			Forced air circ	culation		
Operating temperature range	Room temp.+10 to 260deg.C	Room temp.	+10 to 250deg.C	Room temp	.+10 to 210deg.C	
Temp. control accuracy Temp. distribution accuracy	±1.0deg.C(at 210deg.C) ±2.5deg.C(at 210deg.C)					
Max. temp. reaching time	Approx. 90 min.			Approx. 60 min.		
Components						
Interior material Exterior material	Stainless steel Cold rolled steel plate with melamine resin baking finish					
Heat insulating material	Glass wool					
Heater	Stainless pipe heater					
	0.8KW	1.2KW	1.34KW	1.2KW x 2	1.5KW x 2	
Fan type			Scirocco fan, Con	denser type		
Motor		10W		30W 10W x 2		
Exhaust port/Cable port	30 mm l.D.×2 pcs.(the top	)/30 mm l.D.×1	pc. (right side)	) 30 mm l.D.×2 pcs.(the back)/30 mm l.D.×1 pc. (righ		
Observation window	180×180mm	250>	×280mm	None		
Controller						
Temp. controller	3 patterns program controller, PID control by microprocessor					
Temp. setting method	Digital setting by UP/DOWN key					
Temp display method	Measurement temp. : Digital display by green LED Setting temp. : Digital display by red LED					
Timer	1 min. to 99 Hrs. 59 min. and 100 Hrs. to 999 Hrs. 50 min.					
Min. division	1 min. or 1 Hrs.					
Operation function Program mode	Fixed temperature operation, Program operation, Auto start, Quick Auto-stop, Program operation : 3 pattern, 30 steps(30 steps×1, 15 steps×2, 10 steps×3) Pattern repeat function					
Additional functions	Calibration off-set function, Key lock, Uninterruptible power for memory					
Heater circuit control Sensor	SSR control K-thermocouple					
Safe Device						
Safety countermeasures	Self diagnosis functions (temp. sensor abnormal, Heater disconnection, SSR- short, Automatic overheating prevention), Key lock function, Overheat prevention, Electric leakage breaker with over current protection					
Standard						
Internal dimensions (W×D×Hmm) External dimensions(W×D×Hmm) Internal capacity	300×300×300 410×451×670 27 liters	450×450×450 560×601×820 90 liters	600×500×500 710×651×870 150 liters	600×500×1,000 710×651×1,608 300 liters	1,070×500×1,000 1,180×651×1,616 535 liters	
Shelf plate with standard load	Approx. 15kg/piece					
Shelf rest step number	6 steps	9 steps	12 steps	29 steps	29 steps x 2	
Shelf rest pitch	30mm					
Power source 50/60Hz	100V/220V single phase, 8.5A/3.9A	100V/220V single phase, 12.5A/5.7A	100V/200V/220V single phase, 14A /7A/6.4A	200V/220V single phase, 12.5A/11.4A	200V/220V single phase, 15.5A/14.1A	
weight	Approx. 35 kg	Approx. 50 kg	Approx. 65 kg	Approx. 110 kg	Approx. 190 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.



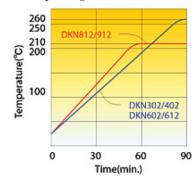
DKN812/300L

DKN912/535L

Control Panel

Temp.Rising Curve





Interior



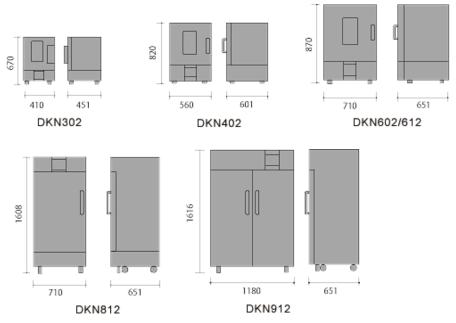
Exhaust Holes







Dimensions (Unit:mm)



#### Optional items

Remark	Description	Model No.	Product Code	
0	Stand forDKN302, ON30	DKN Series	211180	
• ·   • ·   • ·   • ·   • ·	Stand for DKN402/602, ON61	DKN Series	211856	
	Stacking support for DKN402, OD40	DKN Series	212822	
	Stacking support forDKN602/612, OD60	DKN Series	212823	
	Shelf (with support 2 pcs) for DKN302	DKN Series	212094	
	Shelf (with support 2 pcs) for DKN402	DKN Series	212246	
	Shelf (with support 2 pcs) for DKN602/612/812	DKN Series	212266	
	Shelf (with support 2 pcs) for DKN912	DKN Series	212490	
	Cable port, 25mm dia	DKN Series	281121	
	Cable port, 50mm dia	DKN Series	281122	
	Temperature output terminal (4-20 mA)	DKN Series	281123	
•	External alarm terminal/ time-up output terminal (to choose either) *	DKN Series	281124	
	* In case auto damper is chosen, external alarm terminal will become time-up output terminal.	DKN Series		
	* Signal tower is also available upon request.	DKN Series		
•	External communication function (RS485)	DKN Series	281125	
•	External communication adapter (changeable to RS232C)	DKN Series	281126	

## Note:

1. The item marked " • " in the column of "Remark" shall be ordered together with the main unit.

2. The transportation cost will not be required if the order is together with main unit except the item marked "o".

In case you order the item marked "o" together with the main unit, please ask Yamato to obtain the correct transportation cost.



ON Model

Shelf (with 2 support)



Stainless Punching Metal (Weight Tolerance 15kg/pc)