

# Forced Convection Temperature Oven

Programmable Forced Air Convection Ovens

**DKN302C/312C/402C/412C/602C/612C/812C/912C**

**BEST  
SELLER**

Operating Temp. Range	Room temp. +10°C~210/250/260°C	Temp. Distribution Accuracy	±2.5°C (at 210°C)	Internal capacity	27L (DKN302C/312C)	90L (DKN402C/412C)	150L (DKN602C/612C)	300L (DKN812C)	535L (DKN912C)
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## Standard "Best Seller" ovens - Fully programmable

Standard forced air convection ovens are programmable and come with extended functions and safety features.

### Operation and functions

- Best seller based on excellent performance & affordability
- Superior temperature accuracy
- DKN302C/312C/402C/412C/602C/612C come with observation windows
- Programmable PID controller for easy program settings
- 30-step, 3-pattern program controller with repeat functions
- Fixed setting, programmed, Quick Auto stop, Auto stop, and Auto start operating modes with easy control capabilities
- Increased safety and Self-diagnostic function
- Over-heating prevention and calibration off-set are possible with auxiliary functions
- Easy to use and maintain
- Built in exhaust ports

### Safety features

- Self diagnosis functions (Temperature sensor abnormal, Heater disconnection, SSR-short) Automatic overheating prevention, Electric leakage breaker with over current protection, Key lock function



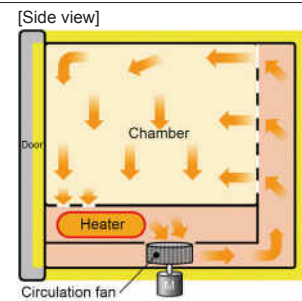
(Stands optional)

### Specifications

Model	DKN302C	DKN312C	DKN402C	DKN412C	DKN602C	DKN612C	DKN812C	DKN912C
Circulation method	Forced air circulation							
Operating temp. range	Room temp. +10°C to 260°C							RT +10°C to 210°C
Temp. adjustment accuracy	±1°C (at 210°C)							
Temp. distribution accuracy	±2.5°C (at 210°C)							
Max. temp. reaching time	~90 min.						~60 min.	
Interior/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		1.5kW		1.5kW x 2	1.8kW x 2
Fan Type / Fan Motor	Scirocco fan, Condenser type motor 10W						1pc / 30W	2pc / 10W
Cable hole	30mm I.D. (on the right side) 1pc.							
Exhaust port	30mm I.D. x 2 (on top)						30mm I.D. x 2 (the back)	
Observation window	180×180mm Chemical strengthening glass x 3		250 x 280mm Chemical strengthening glass x 3				None	
Temp. controller	3 patterns program controller, PID control by microprocessor							
Temp. setting method	Digital setting by UP/DOWN key							
Temp. display	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. with timer wait function							
Operation function	Fixed temperature operation, Program operation, Auto start, Quick Auto-stop							
Program mode	Program operation : 3 patterns, 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	SSR control							
Sensor	K-thermocouple							
Safety device	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							
Internal dimensions (W×D×Hmm)	300×300×300		450×450×450		600×500×500		600×500×1000	1070×500×1000
External dimensions(W×D×Hmm)	410×451×670		560×601×820		710×651×870		710×651×1608	1180×651×1616
Internal capacity	27L		90L		150L		300L	535L
Shelf plate with standard load	~15kg/piece							
Shelf rest step number / Shelf rest pitch	9 steps / 30mm		11 steps / 30mm		13 steps / 30mm		29 steps / 30mm	29 steps x 2 / 30mm
Power source 50/60Hz	115V, 7.5A	220V, 4.5A	115V, 11A	220V, 6.5A	115V, 12.5A	220V, 7A	220V, 15A	220V, 18A
Weight	~35kg		~50KG		~65kg		~110kg	~190kg
Shelf plate	Stainless steel, 1pc on the bottom screwed (DKN912C, 2 pcs)							
Shelf plate / bracket	2 pcs. / 4 pcs.						4 pcs. / 8 pcs.	8 pcs. / 16 pcs.



## Method



## Cable Port (Standard)



## Exhaust port (Standard)



## Interior



DKN602C



DKN912C

## Optional Items

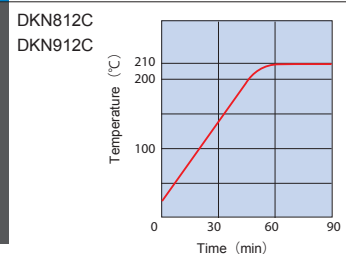
Product name	Product code
ON30 Stand for DKN302C/312C	211180
OT61 Stand for DKN402C/412C/602C/612C	211856
Stacking support OD40 for DKN402C/412C	212822
OD60 for DKN602C/612C	212823
Shelf (with support 2 pcs) for DKN302C/312C	212094
for DKN402C/412C	212246
for DKN602C/612C/812C	212266
for DKN912C	212490
*Cable port	
25mm dia	281121
50mm dia	281122
*Temperature output terminal (4-20 mA)	281123
*External alarm terminal/ time-up output terminal (to choose either)	281124
*External communication function (RS485)	281125
*External communication adapter (changeable to RS232C)	281126
Anti-vibration material with support EPM-08	851352
Anti-vibration material without support EPM-05	851351
Seismic mat for DKN302C/402C/602C series	296902

\* Please specify when ordering main unit.

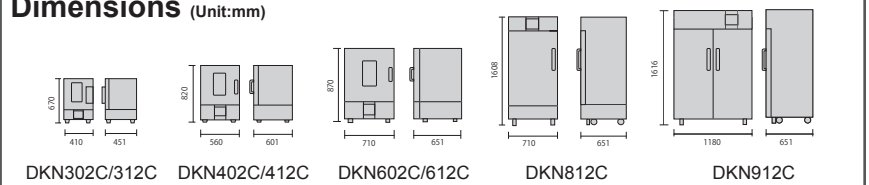
## Control Panel



## Temp. Rising Curve



## Dimensions (Unit:mm)



● Never use in flammable or explosive gas atmosphere.  
● Never use explosive or flammable material.

● Caution: High temperature components.