

Forced Convection Oven

Programmable Forced Air Convection Ovens

**BEST
SELLER**

**MADE
IN
JP**

**MADE
IN
CH**

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

Operating temp. range RT+10°C~260°C RT+10°C~210°C
DKN300-600 Series DKN912C

Temp. distribution accuracy $\pm 2.5^{\circ}\text{C}$ (at 210°C)

Internal capacity 27L (DKN302C/312C) 90L (DKN402C/412C) 150L (DKN602C/612C) 300L (DKN812C) 535L (DKN912C)

Standard "Bestseller" ovens - Fully programmable

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

Operation and functions

- Bestseller 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
- Overheating 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

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	Sirocco 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.×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×H)	300×300×300 mm		450×450×450 mm		600×500×500 mm		600×500×1000mm	1070×500×1000 mm
External dimensions (W×D×H)	410×451×670 mm		560×601×820 mm		710×651×870 mm		710×651×1608mm	1180×651×1616 mm
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 with plug	220V, 4.5A no plug, round terminal	115V, 11A with plug	220V, 6.5A no plug, round terminal	115V, 12.5A with plug	220V, 7A no plug, round terminal	220V, 15A no plug, round terminal	220V, 18A no plug, round terminal
Weight	~35kg		~50kg		~65kg		~110kg	~190kg
Shelf plate	Stainless steel, 1pc. on the bottom screwed (DKN912C, 2 pcs)							
Included shelf plate / bracket	2 pcs. / 4 pcs.						4 pcs. / 8 pcs.	8 pcs. / 16 pcs.

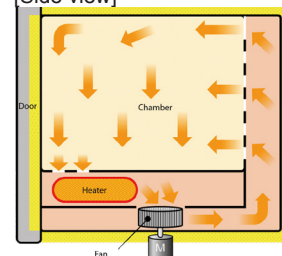


(Stand optional)

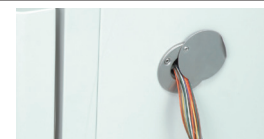


Method

[Side view]



Cable Port (Standard)



Exhaust port (Standard)



Interior



DKN602C



DKN912C

Optional Items

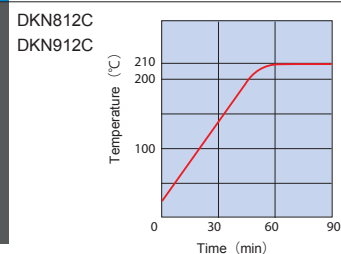
Description	Product code
ON30 Stand for DKN302C/312C	211180
ON61 Stand for DKN402C/412C/602C/612C	211856
Stacking support OD40 for DKN402C/412C	212822
OD60 for DKN602C/612C	212823
Shelf (with support 2 pcs)	
DKN302C/312C	212068
DKN402C/412C	212246
DKN602C/612C/812C	212266
DKN912C	212490
*Cable port	
25mm Ø	281121
50mm Ø	281122
*Temperature output terminal (4-20 mA)	281123
*External alarm terminal/ time-up output terminal (choose either)	281124
Seismic mat for DKN 300 to 400 models	296902

* Please specify when ordering main unit.

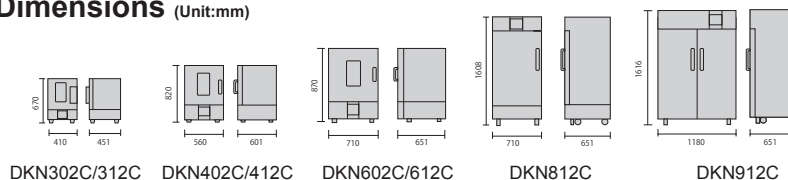
Control Panel



Temp. Rising Curve



Dimensions (Unit:mm)



Attention

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