

Forced Convection Oven



Programmable Forced Air Convection Ovens

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

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

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



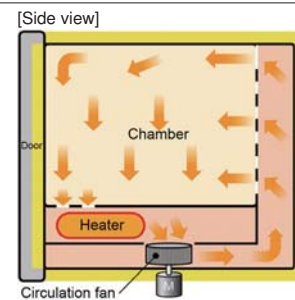
(Stands optional)

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	Approx. 90 min.						Approx. 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×2	1.8kW×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.×2 (on top)						30mm I.D.×2 (the back)	
Observation window	180×180mm Chemical strengthening glass×3		250×280mm Chemical strengthening glass×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	Approx. 15kg/piece							
Shelf rest step number/Shelf rest pitch	9 steps / 30mm		11 steps / 30mm		13 steps / 30mm		29 steps / 30mm	29 steps×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	Approx. 35kg		Approx. 50KG		Approx. 65kg		Approx. 110kg	Approx. 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



DKN612C



DKN912C

Optional Items

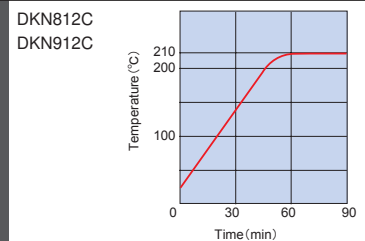
Product name	Product code	
ON30 Stand for DKN302C/312C	211180	
OT61 Stand for DKN402C/412C/602C/612C	211856	
Stacking support OD40 for DKN402C/412C	212822	
OD60 for DKN602C/612C	212823	
Shelf (with support 2 pcs)	for DKN302C/312C	212094
	for DKN402C/412C	212246
	for DKN602C/612C/812C	212266
	for DKN912C	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
Seismic mat for DKN302C/402C/602C series	296902	

* Please specify when ordering main unit.

Control Panel



Temp. Rising Curve



Dimensions (Unit:mm)

