Forced Convection Ovens | Standard, Program Operation

DKN313C/413C/613C/813C/913C

| Operating temp. range | RT+10~260℃ | Temp. distribution accuracy | ±2.8℃ (at 260℃), ±2.5℃ (at 210℃) | Internal capacity | 27L | 90L | 150L | 300L | 535L |

Pioneer in standard constant temperature ovens with multiple functions, including program operation.

■ Features

● Easy operation, available for fixed temp., program, quick auto stop, auto stop and auto start operations.
● Digital setting through special function menu keys and up/down keys. 6 modes with 90 segments program controller.
● Deviation correction and key locking through submenu keys.

■ Safety

● Self-diagnostic circuit (temperature sensor error detection, heater disconnection protection, automatic overheating preventer, SSR short-circuit protection), independent overheating preventer, overcurrent leakage protection switch, and key lock safety functions.

■ Specifications

Model			DKN313C	DKN413C	DKN613C	DKN813C	DKN913C
System			Forced convection				
Performance	Operating temp. range		Room temp. +10~260℃			Room temp. +10~210℃	
	GB standard	Temp. fluctuation	±0.5℃ (at 260℃)			±0.5℃ (at 210℃)	
		Temp. uniformity	±2% (at 260℃)			±2.5% (at 210℃)	
	JTM standard	Temp.adjusting accuracy	±1.0℃ (at 210℃)				
		Temp. distribution accuracy	±2.5℃ (at 210℃)				
	Max. temp. reaching time		Approx. 60 min				
Composition	Interior material		Stainless steel plate				
	Exterior material		Cold rolled steel plate with chemical proofing coating				
	Insulating material		Glass fiber+rock wool				
	Heater		Stainless steel heating pipe				
			0.8KW	1.2KW	1.5KW		1.8KW
	Fan blade/motor		Centrifugal fan blade, 10W motor×1			Motor: 30W×1	Motor: 10W×2
	Cable port		Inner diameter: 30mm×1, located on the right				
	Exhaust vent		I.D. 30mm×2, located on the top			I.D. 30 mm×2, located at the back	
	Observation windows (width×height in mm)		180×180	250×280		None	
Controllers	Temp. control method		3-stage PID				
	Temp. setting method		Digital setting through special function menu keys and up/down keys				
	Temp. display method		Achieved temp. display: Green 4-digit LED digital display				
			Setting temp. display: Red 4-digit LED digital display				
	Timer		1 min~99 h 59 min and 100~999 h 50 min (including timer waiting function)				
	Operation functions		Fixed temperature operation, program operation, quick auto stop operation, auto stop operation, auto start operation, etc.				
	Additional functions		Deviation correction, key lock, power failure compensation				
	Temp. control sensor		K-type sensor				
	Overheat sensor		Liquid expansion type (independent circuit for safety)				
Safety device			Self-diagnostic circuit (temperature sensor anomaly, heater disconnection protection, automatic overheating preventer, SSR short-circuit), independent overheating preventer, overcurrent leakage protection, and key lock functions				
Specifications	Internal dimensions (W×D×H mm)		300×300×300	450×450×450	600×500×500	600×500×1000	1070×500×1000
	External dimensions (W×D×H mm)		410×451×677	560×601×827	710×651×877	710×651×1598	1180×651×1606
	Internal capacity		27L	90L	150L	300L	535L
	Shelf load		15kg/layer				
	Shelf layers		6 layers	11 layers	13 layers	29 layers	29 layers×2 columns
	Support spacing		30mm				
	Power supply (50/60Hz) rated current		AC220V, 4A	AC220V, 6A	AC220V, 7.5A	AC220V, 14.5A	AC220V, 17A
	Weight		Approx. 35kg	Approx. 50kg	Approx. 65kg	Approx. 110kg	Approx. 190kg
Accessories	Shelf		Stainless punching mesh plate				
			2 pieces, 1 of which is fixed to the chamber; do not disassemble			4 pcs	8 pcs
	Supports		2 pcs			8 pcs	16 pcs
Options	Stand		ON30C	ON61C		—	
	Stacking fittings		—	OD40C	OD60C	—	
	Others		Shelf (1 shelf with 2 supports) , cable port (30/50mm), micro printer, data logger combination, warning light (standby/running/fault), external communication function (RS485), temperature output terminal (4~20mA), external alarm output terminal, time-up output terminal, centralized monitoring software				

Forced Convection · Automatic Overheating Preventer · Overheating Preventer · Self-diagnostic Function · Key Lock Function · Power Failure Compensation Function · Overcurrent Leakage Circuit Breaker · CE Certification

Internal chamber

DKN613C

DKN913C

Control panel

Cable port (standard configuration)

Exhaust vent (standard configuration)

Dimension diagram (mm)

[DKN313C] 677 / 410 / 451
[DKN413C] 827 / 560 / 601
[DKN613C] 877 / 710 / 651
[DKN813C] 1598 / 710 / 651
[DKN913C] 1606 / 1180 / 651