

Forced Convection Ovens | Standard, Program Operation

DKN303C/313C/403C/413C/603C/613C/813C/913C

Operating temp. range RT+10~260°C

RT+10~210°C (DKN813C, 913C)

Temp. distribution accuracy ±2.5°C (at 210°C)

Internal capacity 27L 90L 150L 300L 535L

A proven line of standard forced-convection ovens with multiple operating modes, including programmable operation.

Features

- Easy operation with selectable modes: fixed temperature, programmable operation, quick auto-stop, auto-stop, and auto-start.
- Digital settings via dedicated function/menu keys and ▲/▼ keys. Supports 6 patterns with up to 90 segments per program.
- Temperature calibration offset and key-lock are available via sub-menu keys.

Safety

- Self-diagnostic functions (temperature sensor error detection, heater disconnection protection, and SSR short-circuit protection), independent overheat protection, an earth leakage circuit breaker (ELCB) with over-current protection, and a key-lock function.



Specifications

Model	DKN303C	DKN313C	DKN403C	DKN413C	DKN603C	DKN613C	DKN813C	DKN913C									
System	Forced convection																
Performance	Operating temp. range		Room temp. +10~260°C				Room temp. +10~210°C										
	GB standard	Temp. fluctuation	±0.5°C (at 260°C)				±0.5°C (at 210°C)										
		Temp. uniformity	±2% (at 260°C)				±2.5% (at 210°C)										
	JTM standard	Temp. adjusting accuracy	±1.0°C (at 210°C)														
		Temp. distribution accuracy	±2.5°C (at 210°C)														
Max. temp. reaching time		Approx. 90min				Approx. 60min											
Composition	Interior material		Stainless steel plate														
	Exterior material		Cold rolled steel plate with chemical proofing coating														
	Insulating material		Centrifugal glass wool+rock wool														
	Heater		0.8kW		1.2kW		1.5kW		1.5kW×2		1.8kW×2						
	Fan blade/motor		Centrifugal fan blade, 10W motor×1						Motor: 30W×1		Motor: 10W×2						
	Cable port		Inner diameter: 33mm×1, located on the right														
	Exhaust vent		I.D. 33mm×2, located on the top				I.D. 33mm×2, located at the back										
Controllers	Observation windows (width×height in mm)		180×180		250×280		None										
	Temp. control method		3-stage PID														
	Temp. setting method		Digital setting through special function menu keys and ▲/▼ 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, 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		AC115V 7.5A		AC220V 4A		AC115V 11A		AC220V 6A		AC115V 13.5A		AC220V 7.5A		AC220V 14A		AC220V 17A
Weight		Approx. 35kg		Approx. 60kg		Approx. 75kg		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								6 pcs		12 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														

1 Sterilizers

2 Granulation and Spray Dryers

3 Furnaces

4 Ovens

5 Incubators

6 Plasma Equipment

7 Water Purifiers

8 Baths

9 Water Circulators

10 Rotary Evaporators

11 Stirrers & Shakers

12 Options

Forced Convection

Automatic Overheating Preventer

Overheating Preventer

Self-diagnostic Function

Key Lock Function

Power Failure Compensation Function

Overcurrent Leakage Circuit Breaker



Control panel



Internal chamber



DKN603C/613C

DKN913C

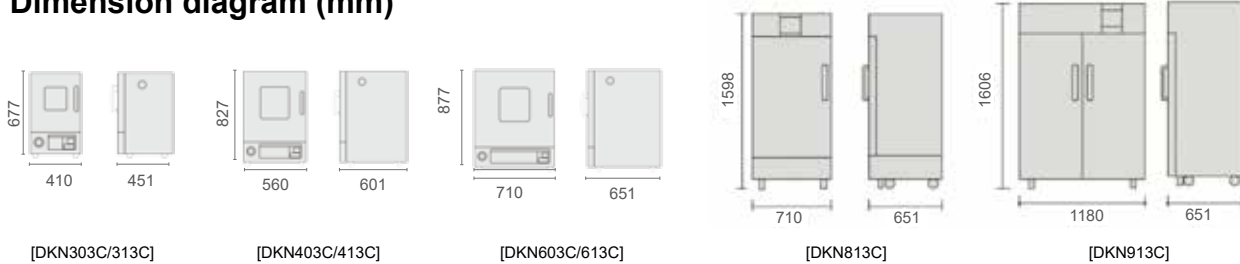
Cable port (standard configuration)



Exhaust vent (standard configuration)



Dimension diagram (mm)



- Sterilizers 1
- Granulation and Spray Dryers 2
- Furnaces 3
- Ovens 4
- Incubators 5
- Plasma Equipment 6
- Water Purifiers 7
- Baths 8
- Water Circulators 9
- Rotary Evaporators 10
- Stirrers & Shakers 11
- Options 12