

Forced Convection Ovens | Economical, Fixed Temp. Operation

DKM301C/311C/401C/411C/601C/611C

Operating temp. range RT+10~260°C

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

Internal capacity 27L 90L 150L

Economical model for fixed temperature operation, a simple-to-operate forced convection constant temperature oven.

Features

Operability & functions

- Easy to operate, fixed temperature operation, quick auto stop operation, auto stop operation, and auto start operation.
- Digital setting through special operation function menu keys and ▲/▼ keys. Able to set overheating protection, deviation correction, and key lock.

Safety

- Equipped with self-diagnostic circuits (temperature sensor anomaly), power failure compensation function, deviation correction function, leakage protection against overcurrent, independent overheating preventer and other safety features.



Specifications

Model		DKM301C	DKM311C	DKM401C	DKM411C	DKM601C	DKM611C	
System		Forced convection						
Operating temp. range		Room temp. +10~260°C						
Performance	GB standard	Temp. fluctuation	$\pm 0.5^{\circ}\text{C}$ (at 260°C)					
		Temp. uniformity	$\pm 2\%$ (at 260°C)					
	JTM standard	Temp. adjusting accuracy	$\pm 1.0^{\circ}\text{C}$ (at 210°C)					
		Temp. distribution accuracy	$\pm 2.5^{\circ}\text{C}$ (at 210°C)					
Max. temp. reaching time		Approx. 60 min (room temp 10~210°C), approximately 90 min (room temp 10~260°C)						
Composition	Interior material		Stainless steel plate					
	Exterior material		Cold rolled steel plate with chemical proofing coating					
	Insulating material		Rock wool+centrifugal glass wool					
	Heater		Stainless steel heating pipe					
			0.8kW		1.2kW		1.5kW	
	Fan blade/motor		Centrifugal fan blade, 10W motor×1					
	Cable port		Inner diameter: 30mm×1, located on the right					
Exhaust vent		I.D. 33mm×2, located on the top						
Controllers	Temp. control method		PID control					
	Temp. setting method		Digital setting through function menu key 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 temp. operation, auto start, auto stop, quick auto stop					
	Additional functions		Deviation correction, key lock, power failure compensation					
	Sensors		Temperature controller: K-type thermocouple, overheating protection: Liquid expansion temperature controller					
Safety device		Self-diagnostic function (temperature sensor abnormality, SSR short circuit, automatic overheating preventer), key lock, independent overheating preventer, earth leakage circuit breaker with overcurrent protection						
Specifications	Internal dimensions (W×D×H mm)		300×300×300		450×450×450		600×500×500	
	External dimensions (W×D×H mm)		410×451×677		560×601×827		710×651×877	
	Internal capacity		27L		90L		150L	
	Shelf load		15kg/layer					
	Shelf layers		6 layers		11 layers		13 layers	
	Support spacing		30mm					
	Power supply (50/60Hz) rated current		AC115V, 7.5A	AC220V, 4A	AC115V, 11A	AC220V, 6A	AC115V, 13A	AC220V, 7.5A
	Weight		Approx. 35kg		Approx. 50kg		Approx. 65kg	
Accessories	Shelf		Stainless punching mesh plate 2 pieces, 1 of which is fixed to the chamber; do not disassemble					
	Supports		2 pcs					
Options	Stand		ON30C		ON61C			
	Stacking fittings		-		OD40C		OD60C	
	Others		Shelf (1 shelf plate with 2 shelf supports), cable port (30/50mm)					

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



Cable port (standard configuration)



Exhaust vent (standard configuration)

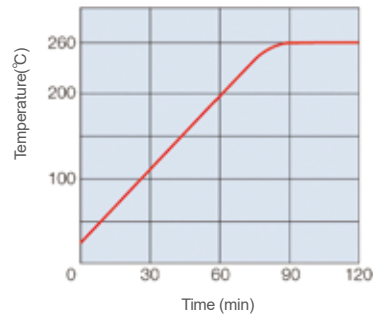


Internal chamber



DKM601C/611C

Temperature rise curve



- 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

Dimension diagram (mm)

