

Constant Temperature Ovens

Yamato

Forced Convection

Model DKM300/400/600

Model		
300	400	600

Operating Temperature Range
Room temp.+10°C~260°C

Temp. Distribution Accuracy
±2.5°C(at210°C)

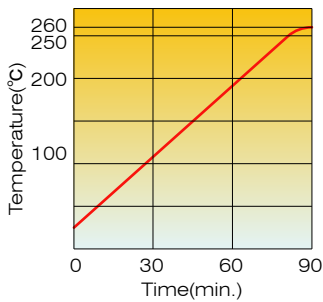
Internal Capacity		
27 l	90 l	150 l

High cost performance forced convection oven, fixed type.

A forced convection, constant temperature oven incorporating simple operation functions and a wide range of other function, and boasting enhanced safety features and operability.

- Fixed setting, Quick Auto stop, Auto stop, and Auto start operating modes are possible, along with easy control capabilities.
- Settings can be made digitally using the dedicated operation menu keys or the keys.
- Over-heating prevention, calibration offsetting and key-lock are possible through the auxiliary functions.
- Comprehensive safety features.

Temp. Rising Curve



Interior



DKM600



DKM300

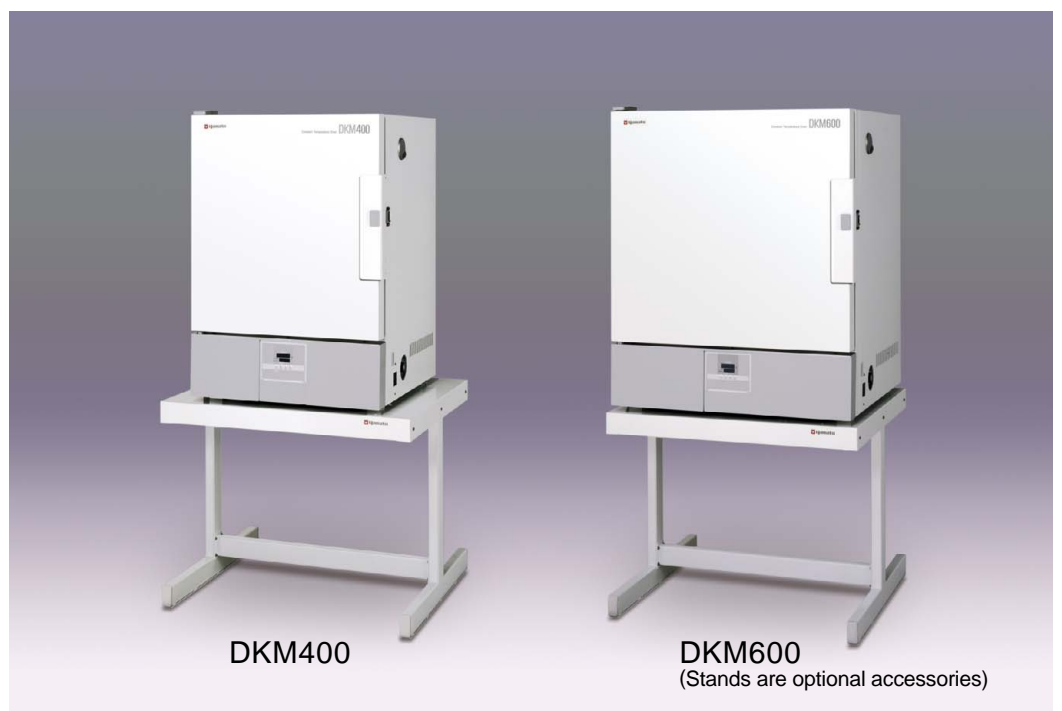
Control Panel



Exhaust Holes

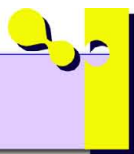


Cable Hole



DKM400

DKM600
(Stands are optional accessories)



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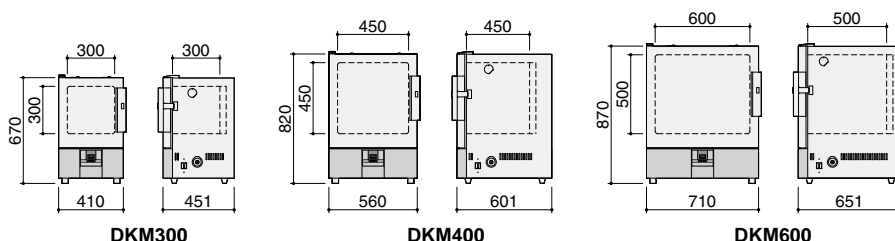
Forced Convection

Specifications

Model	DKM300	DKM400	DKM600
Performance			
Circulation method	Forced air circulation		
Operating temperature range	Room temp. +10~260°C		
Temp. control accuracy	±1.0°C(at 210°C)		
Temp. distribution accuracy	±2.5°C(at 210°C)		
Max. temp. reaching time	Approx. 90 min.		
Components			
Interior material	Type 304 Stainless steel		
Exterior material	Cold rolled steel plate with melamine resin baking finish		
Heat insulating material	Glass wool		
Heater	Stainless pipe heater		
	0.8 kW	1.2 kW	1.34 kW
Fan type	Scirocco fan, Condenser type		
Motor	10 W		
Exhaust port/Cable port	30 mm I.D. × 2 pcs.(the top) / 30 mm I.D. × 1 pc.(right side)		
Controller			
Temp. controller	PID control by microprocessor		
Temp. setting method	Operation menu key and digital setting by ▲▼ key		
Temp display method	Measurement temp. : Digital display by green LED Setting temp. : Digital display by red LED		
Timer	1 min.~99 Hrs. 59 min. and 100 Hrs.~999 Hrs. 50 min.		
Min. division	1 min. or 1 Hrs.		
Operation function	Fixed temperature operation, Auto start, Quick Auto-stop		
Additional functions	Calibration off-set function, Key lock, Uninterruptible power for memory		
Heater circuit control	SSR control		
Sensor	K-thermocouple		
Safe Device			
Safety countermeasures	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		
Standard			
Internal dimensions (W×D×Hmm)	300 × 300 × 300	450 × 450 × 450	600 × 500 × 500
External dimensions(W×D×Hmm)	410 × 451 × 670	560 × 601 × 820	710 × 651 × 870
Internal capacity	27 liters	90 liters	150 liters
Shelf plate with standard load	Approx. 15kg/piece		
Shelf rest step number	6 steps	9 steps	12 steps
Shelf rest pitch	35 mm		
Power source 50/60Hz	100V/220V single phase, 8.5A/3.7A	100V/220V single phase, 12.5A /5.7A	100V/220V single phase, 14A/6.4A
weight	Approx. 31 kg	Approx. 45 kg	Approx. 64 kg
Accessories			
Shelf plate	Stainless steel, 2 pcs.		
Shelf bracket	4 pcs.		
Optional Accessories			
Stand / Fitting for stacking / Additional shelf plate / Cable hole(25/50mm) / External communication terminal / Temp. output terminal (4~20mA) / Time up out-put terminal / Out-put terminal for alarm device / Independent overheating prevention etc.			

- The performance shown here is the value under the condition of the ambient temperature of 23°C±5°C, humidity of 65%RH±20%.
- The projection is not included for Internal dimensions and External dimensions.

Dimensions (Unit:mm)



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