



Industrial / Lab Forced Air Convection Oven

Programmable Forced Air Convection Ovens

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Yamato Oven Models: DKN302C/312C/402C/412C/602C/612C/812C/912C

Operating temp. range	RT+10°C-260°C DKN300-800 Series	RT+10°C-210°C DKN912C	Temp. distribution accuracy	±2.5°C (at 210°C)	Internal capacity	.95 CuFt (DKN302C/312C)	3.1 CuFt. (DKN402C/412C)	5.3 CuFt. (DKN602C/612C)	10.6 CuFt. (DKN812C)	18.9 CuFt. (DKN912C)
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Standard "Bestseller" Ovens - Fully Programmable

Standard forced air convection ovens are programmable and come with extended functions and safety features.

■ Operation and functions

- **Bestseller Based on Excellent Performance & Affordability**
- Superior temperature accuracy
- The Yamato Industrial Ovens Models DKN302C/312C/402C/412C/602C/612C come with observation windows and Programmable PID controllers 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



Yamato Oven Models	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	~90 min.						~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 x 2		1.8kW x 2
Fan Type / Fan Motor	Sciocco fan, Condenser type motor 10W						1pc / 30W		2pc / 10W
Cable hole	1.2" I.D. (on the right side) 1pc.								
Exhaust port	1.2" I.D. x 2 (on top)						1.2" I.D. x 2 (the back)		None
Observation window	7" X 7" Chemical strengthening glass x 3		9.8" X 11" Chemical strengthening glass x 3				None		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×H)	11.8" X 11.8" X 11.8"		17.7" X 17.7" X 17.7"		23.6" X 19.6" X 19.6"		23.6" X 19.6" X 39.4"		42.1" X 19.6" X 39.4"
External dimensions(W×D×H)	16.1" X 17.7" X 26.4"		22" X 23.6" X 32.3"		28" X 25.6" X 34.3"		28" X 25.6" X 63.3"		46.5" X 25.6" X 63.6"
Internal capacity	.95 Cubic Ft.		3.1 Cubic Ft.		5.3 CubicFt.		10.6 Cubic Ft.		18.9 Cubic Ft.
Shelf plate with standard load	33 Lbs. / piece								
Shelf rest step number / Shelf rest pitch	9 steps / 1.2"		11 steps / 1.2"		13 steps / 1.2"		29 steps / 1.2"		29 steps x 2 / 1.2"
Power source 50/60Hz	115V, 7.5A with plug	220V, 4.5A no plug, round terminal	115V, 11A with plug	220V, 6.5A no plug, round terminal	115V, 12.5A with plug	220V, 7A no plug, round terminal	220V, 15A no plug, round terminal	220V, 18A no plug, round terminal	
Weight	77 Lbs.		110 Lbs.		143 Lbs.		243 Lbs		419 Lbs.
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.



10.6 CuFt.
DKN812C

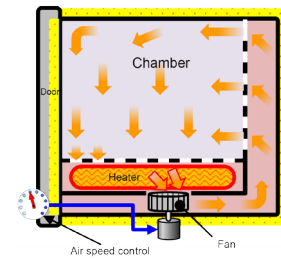
18.9 CuFt.
DKN912C



.95 CuFt.
DKN302C

Method

[Side view]



Cable Port (Standard)



Exhaust port (Standard)



Interior



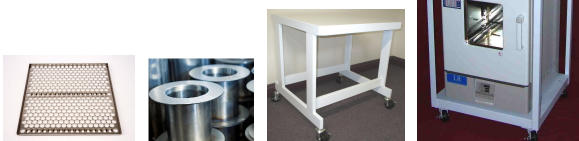
DKN602C



DKN912C

Options We Can Provide:

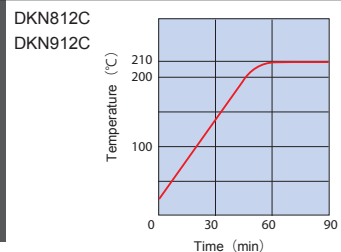
- Additional Shelves
- Custom Stands
- Ports
- Recording Devices
- Please Inquire...



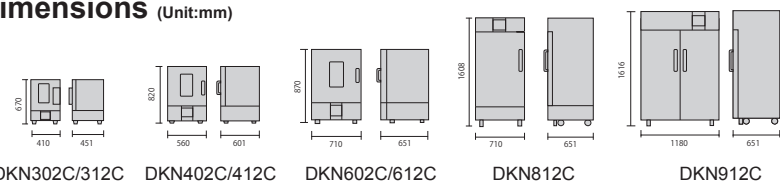
Control Panel



Temp. Rising Curve



Dimensions (Unit:mm)



- Never use in flammable or explosive gas atmosphere.
- Never use explosive or flammable material.
- Caution: High temperature components.