

Forced Convection Oven

Programmable Forced Convection Ovens

DKN-303-115V / DKN-303-220V

MADE
IN
JP

Operating temp range RT+10°C~260°C

Temperature fluctuation ±0.4°C (at 260°C)

Internal capacity 27L

Operation and functions

- Excellent temperature performance
- Temperature fluctuation is ±0.4°C
- Temperature gradient is highly accurate at 9°C (at max. temp.)
- Monochromatic design for intuitive operation - design features a unified black color for all parts touched during operation, resulting in an intuitive user experience
- Improved visibility and operability with the redesigned control panel, now angled to provide a more easily visible and user-friendly position
- Simple-to-operate forced convection constant temperature oven
- Easy operation allows for constant temperature operation, quick auto-stop operation, auto-stop operation, and auto-start operation.

Safety features

- Full range of safety functions, including automatic over-temperature protection, abnormal temperature measurement detection, and an overcurrent leakage circuit breaker.
- Independent overheat protector is now fitted as standard on the bottom front.
- Settings can be checked any time.

Specifications

Model	DKN-303-115V / DKN-303-220V
Circulation method	Forced convection
Operating temp. range ¹	Room temp. +10°C to 260°C
Temp. fluctuation ¹	±0.4°C (at 260°C)
Temp. gradient ¹	9°C (at 260°C)
Temperature rise rate ¹	3.9°C / min.
Temp. rise time ²	~60 min.
Exterior material	Chromium-free electrogalvanized steel sheet, baked coating
Chamber	Stainless steel sheet metal
Heat insulating material	Glass wool
Heater	Stainless steel tube heater 0.8kW
Fan Type / Fan Motor	Scirocco fan / Capacitor motor
Cable port	33 mm I.D. x 1 (right side)
Exhaust port	33 mm I.D. x 2 (on top)
Observation window	180×180mm Chemically strengthened glass x 3 pcs.
Temp. controller	PID control by microprocessor
Setting system	Digital setting using dedicated menu keys and ▲▼ keys
Display system	Temperature reading display: Green 4-digit LED digital Temperature setting display: Red 4-digit LED digital
Timer	0 minutes to 99 hours 59 minutes and 100 to 999 hours 50 minutes (with timer wait function, ON/OFF possible)
Timer resolution	1 minute increments under 999 hours and 59 minutes, 10 minutes after 100 hours
Wait function	Timer wait function (ON/OFF setting)
Operation function	Fixed temperature/Program operation/Quick auto stop operations/Auto stop operation/Auto start operation/Program auto start
Additional functions	Calibration offset / Keypad lock / Auto-resume mode select
Sensor	Temperature regulator: K thermocouple For independent oversurge prevention: Hydraulic oversurge prevention
Safety device	Self-diagnostic functions (Automatic over-temperature protection, Temperature sensor failure, Heater disconnection, SSR short circuit, Main relay failure, Memory error, Internal communication error, Abnormal temperature reading) / Independent over-temperature protection / Set value lock function / Overcurrent leakage breaker
Internal dimensions (W×D×H)	300×300×300 mm
External dimensions (W×D×H)	410×450×670 mm
Internal capacity	27L
Shelf plate with standard load	~15kg/piece. Total load capacity 30 kg.
Shelf rest step number / Shelf rest pitch	6 steps / 30mm
Power source 50/60Hz	115V 7.5A with plug / 220V 4A no plug, round terminal
Weight	~35kg
Included shelf plate / brackets	1 piece / 2 pcs

¹. Performance (excluding temp. rise time) is based on a power supply of 115V or 220V, room temp. of 23°C±5°C, humidity of 65%RH±20%, and no load. Note that the max. temp. in the temp. control range (260°C) may not be reached if the power supply voltage is below 115V or 220V or if the outside temp. is low.

². Temp. rise time is reference data at 115V or 220V, room temp. 23°C, humidity 65%, and no load. Note that if the power supply voltage is below 115V or 220V or if the outside temperature is low, the temperature rise time may be extended.



27L
(Stand optional)

Interior



Control Panel



Cable Port / Exhaust Ports



Optional Items

Description	Product code
Stand	281353
Shelf (with support 2 pcs)	212068
*Cable port	
25mm Ø	281121
50mm Ø	281122
*Temperature output terminal (4-20 mA)	281375
Choose either:	
* External alarm terminal	281376
* Time-up output terminal	281377
Seismic mat	296902
Sheath sensor	ODT48
Silicon plug (with hole)	212947

* Please specify when ordering main unit.