

Natural Convection Oven (High Temp., 700°C)

DR210C

Operating temp. range 300~700°C

Temp. distribution accuracy $\pm 25^{\circ}\text{C}$ (at 700°C)

Internal capacity 13.75L

High-temp. drying oven integrated with electric furnace, constant temp. oven and drying oven.

Operation and functions

- Programmable natural convection oven with high accuracy control at high temperature range
- Equipped with high operability temperature controller
- Can be used as constant temperature oven, drying oven, and electric furnace for ashing, sintering, etc. as unit is suitable for each of these three functions
- Temperature, measured temperature and overheat prevention temperature can be digitally set by operation menu and $\blacktriangle/\blacktriangledown$ keys
- Easy programmable operation, fixed temperature, quick auto stop, auto stop and auto start
- Lock function, auto recovery after power failure, calibration offset

Safety Features

- Failure of sensor, heater, SSR, memory, internal communication, temperature inputting circuit, automatic overheating prevention device, overheating prevention device, measurement temperature

Specifications

Model	DR210C
Method	Natural convection
Temp. control range	300~700°C
Temp. adjustment accuracy	$\pm 5^{\circ}\text{C}$ (at 700°C)
Temp. control accuracy	$\pm 25^{\circ}\text{C}$ (at 700°C)
Max. temp. reaching time	Approx. 60min. (Room temp. +5°C~700°C)
Interior	Stainless steel plate
External material	Cold rolled steel plate with chemical proofing coating
Insulating material	Ceramic fiber
Heater	Ferrochrome wire heater 1.3kW
Temp. controller	3 segments PID
Temp. setting	Use specialized function menu key and UP/DOWN key to set
Temp. display	Measured temp. display: Green 4-digit LED digital display Setting temp. display: Red 4-digit LED digital display
Timer	1min-99 hr 59 min and 100 hr-999 hr 50 min (attached with timing wait function)
Operation functions	Fixed temp., Program, Auto start, Auto stop operation
Program mode	Program operation 3 segments 30 steps (30 steps $\times$ 1, 15 steps $\times$ 2, 10 steps $\times$ 3)
Additional functions	Deviation correction, Key lock, Power outage compensation
Sensor	K thermocouple (Temp. controller and overheat protector)
Safety device	Self-diagnosis circuit (Abnormal temp. sensing, Heater disconnection, Auto overheat prevention, SSR short circuit), Overheat protector, ELB to prevent overcurrent, Key lock, etc.
Internal dimension (W $\times$ D $\times$ H)	250 $\times$ 250 $\times$ 220mm
External dimension (W $\times$ D $\times$ H)	520 $\times$ 443 $\times$ 612mm
Internal capacity	13.75L
Shelf load capacity	15kg / pc.
Shelf rest step number	3 steps
Shelf rest pitch	33mm
Power source (50/60Hz)	AC220V, 7A
Weight	Approx. 36kg
Shelf plate	Stainless punching metal
Shelf plate / bracket	2 pcs. / Integral structure with chamber (33mm pitch)
Optional	Stand ON61C
	Others Shelf plate, Recorder, Indicator lamp (Stand-by / Running / Malfunction), External communication (RS485), Temp. output terminal (4-20mA), Output terminal for alarm device, Time up output terminal



Control Panel



Dimensions (mm)

