

High Temperature Natural Convection Oven

DR200-115V / DR200-220V

Operating temp. range 300~700°C

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

Internal capacity 13.75L

Wide temperature range, maximum operation temperature up to 700°C

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	DR200-115V	DR200-220V
System	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	~70min. (Room temp. +5°C~700°C)	
Interior material	Stainless steel	
External material	Electro-galvanized steel sheet with epoxy and melamine resin baking finish	
Heat insulating material	Ceramic fiber	
Heater	Iron-chrome wire heater 1.3kW	
Temp. controller	PID control	
Temp. setting method	Digital setting by operation menu key and $\blacktriangle/\blacktriangledown$ keys	
Temp. display	Measured temp.: Green 4 digit LED digital display Setting temp.: Red 4 digit LED digital display	
Timer	1min. to 99hrs 59min. and 100~999hrs 50min. (with timer wait function)	
Operation functions	Program operation, fixed temperature, quick auto stop, auto stop, auto start	
Additional functions	Calibration off-set, key lock, auto recovery after power failure	
Heater circuit control	SSR control	
Sensor	K thermocouple (W sensor)	
Safety device	Self diagnostic functions (temp. sensor abnormal, heater disconnection, SSR short, automatic overheat prevention function), key lock function, overheat prevention, electric leakage breaker with over current protection	
Internal dimension (WxDxH)	250 x 250 x 220mm	
External dimension* (WxDxH)	520 x 443 x 612mm	
Internal capacity	13.75L	
Shelf load capacity	15 kg / pc.	
Shelf rest step number	3 steps	
Shelf rest pitch	33mm	
Power source (50/60Hz)	AC115V 12A	AC220V 6.5A
Weight	~36 kg	
Shelf plate	Stainless punching metal	
Shelf plate	2 pcs. (1 pc. screwed at the bottom)	

* Protrusions excluded

Optional items

No.	Description	Product code
1	Stand ONS60	212802
2	Shelf plate 1pc.	212808
3	Temp. output terminal (4-20mA)	281156
4	External alarm terminal / time-up output terminal*	281157
5	External communication terminal (RS485)	281158
6	External communication adaptor (changeable to RS232C)	281159
7	Seismic mat	296902

No. 3~6 please specify when ordering main unit.

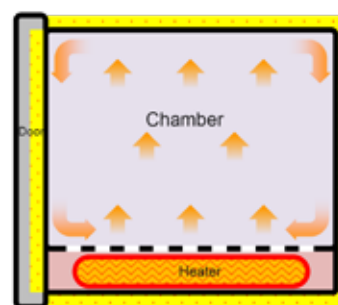
*External alarm terminal and time-up output terminal cannot be installed at the same time



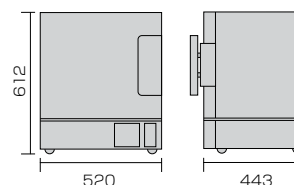
ONS Stand

Method

[Side view]



Dimensions (mm)



Attention

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