

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

## DR200

Natural convection

Auto overheat prevention

Overheat protector

Self-diagnosis

Key lock

Power outage compensation

Overcurrent ELB

Operating temp. range 300~700°C

Temp. distribution accuracy ±25°C (at 700°C)

Internal capacity 13.75L

**Programmable natural convection oven with high accuracy control at high temperature range.**

### Operation and functions

- 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.
- Easy programmable operation, fixed temperature, quick auto stop, auto stop and auto start.
- Lock function, auto recovery after power failure, calibration offset.

### Safety Features

- Self-diagnosis circuit (Abnormal temp. sensing, Heater disconnection, Auto overheat prevention, SSR short circuit), Overheat protector, ELB to prevent overcurrent, Key lock function.

### Specifications

Product code.	212058
<b>Model</b>	<b>DR200</b>
Method	Natural convection
Temp. control range	300 to 700°C
Temp. adjustment accuracy*1	±5°C (at 700°C) JTM K05
Temp. distribution accuracy*1	±25°C (at 700°C) JTM K05
Max. temp. reaching time*1	Approx. 70min.
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	PID control
Temp. setting	Use specialized function menu key and UP/DOWN key to set
Temp. display	Measured temp. display: Green LED digital display Setting temp. display: Red 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, Quick auto stop
Program mode	Program operation 3 segments 30 steps (30 steps×1, 15 steps×2, 10 steps×3)
Additional functions	Key lock, Calibration off-set, 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 function
Internal dimension	W250×D250×H220mm
External dimension*1	W520×D443×H612mm
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)

The length of the power cord is about 2 meters outside the unit

\*1 Conditions: temperature and humidity : 23°C±5°C, 65%RH±20% (no load)

\*2 Do not include protrusions.

### Optional Items

No.	Product name	Product code
①	Stand (ONS60)	212802
②	Shelf (with support 2 pcs.) Stainless punching metal	212808
③	*Temperature output terminal (4-20mA)	281156
④	*External alarm terminal/ time-up output terminal (to choose either)	281157
⑤	*External communication function (RS485)	281158
⑥	*External communication adapter (changeable to RS232C)	281159
⑦	Seismic mat	296902

\* Please specify when ordering main unit.

Yamato Scientific Co., Ltd.

DR200

www.yamato-scientific.com 2003

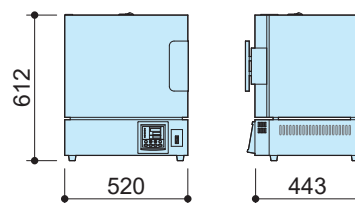


13.75L

### Control Panel



### Dimensions (mm)



④ Stand (Option)  
ONS60



⑦ Seismic mat



Sintech Scientific (S.E.A.) Pte Ltd

No. 194 Pandan Loop #04-11

Pantech Business Hub

Singapore 128383

Tel : 65-67790007

Fax : 63520877, 63520885

Email : [sales@sintechscientific.com](mailto:sales@sintechscientific.com)

Website : [www.sintechscientific.com](http://www.sintechscientific.com)