

Features of DAIHAN Ovens



High Performance Heating Mechanism of DAIHAN accomplishing world's best temperature accuracy and uniformity

The new types of Oven of DAIHAN are outfitted with high performance heating mechanism that is optimized respectively for capacity of chamber, power of heating element and air circulation type (Gravity Convection or Forced Convection).

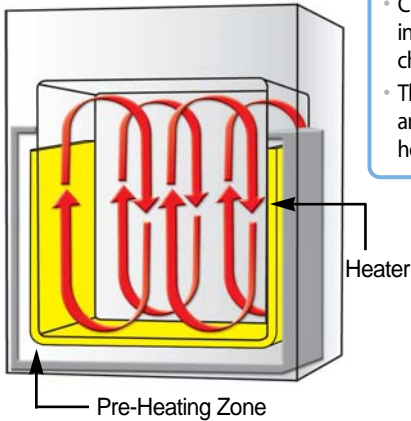
The temperature displayed on the controller is accurately consistent with the actual temperature in the very center of the chamber or the average temperature in the entire area of the chamber, which maintains precisely within fluctuation specification. In addition, the temperature in the entire area of the chamber shows a very high stability keeping within a very slight variation specification in terms of temperature uniformity. Simultaneously, through the optimization of Fuzzy-PID controller, the 'heat-up time' to reach the Set Temperature after operating and the 'recovery time' to get back to the set temperature after opening and closing of the door are very short.

The newly developed high performance heating mechanism has achieved high degree of temperature accuracy and uniformity in the chamber. This is achieved by the heating elements installed on three sides - that is, the left, right and bottom parts of a chamber - which directly heat the stainless-steel chamber. This either enhances its material thermal conductivity to maximum (in case of the Incubator) or the heated air from the pre-heating zone in air-jacket type that is built in the three sides outside a chamber circulates first (in case of the Oven).

» Oven

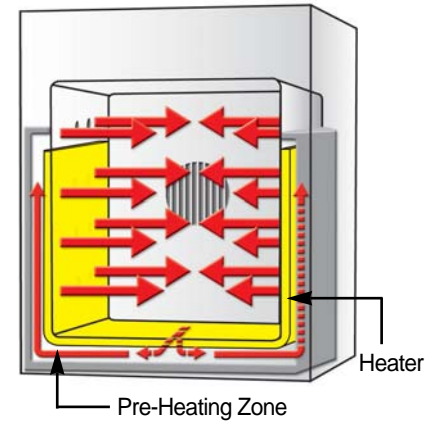
Gravity Convection

- Circulation is made by heating elements that first heat the air in the pre-heating zone which surrounds the three sides of the chamber.
- The effects of both three-side heating and gravity convection are to be maximized via providing the heated air from the pre-heating zone restrictively into the chamber.



Forced Convection

- The same three-side heating elements and pre-heating zone as Gravity Air-Flow model.
- The strong fan installed in the back of the chamber sucks the air inside the chamber, which is provided to the pre-heating zone, while the heated air is uniformly and quickly provided into the chamber through its specially designed side and bottom structure.



■ High Performance Heating Mechanism

The world's best performance and quality coming true via innovative heating mechanism !!

» Minimum

Fluctuation !

Minimization of Fluctuation in Temperature

Variation !

Minimization of spatial variation in temperature inside the chamber

Heat-up Time !

Minimization of reaching the set temperature

Overshoot !

Minimization of overshooting at the time of reaching the set temperature

» Perfect Door Lock by Double Latch

The up-and-down double latch structure pushes the door as closely to the chamber as possible, which leads to the minimization of temperature interference inside the chamber by the outside air.

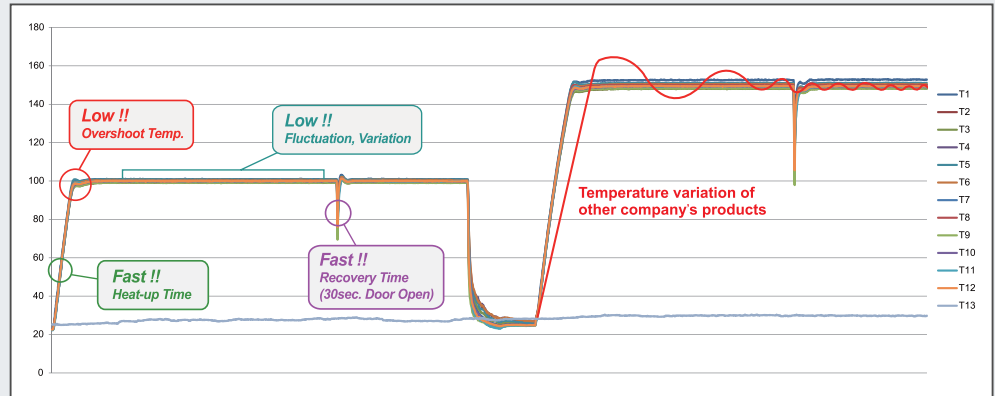
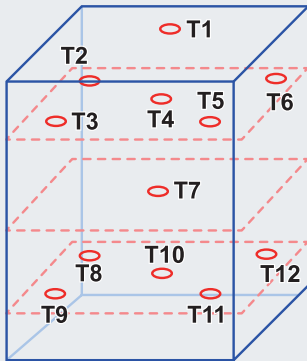


The structure allows the door to adhere firmly and closely to the chamber on both upper and lower sides in a balanced way

- High-performance thermal insulation
- Minimization of thermal losses from heat leak inside the chamber
- Enhancement of temperature accuracy and uniformity

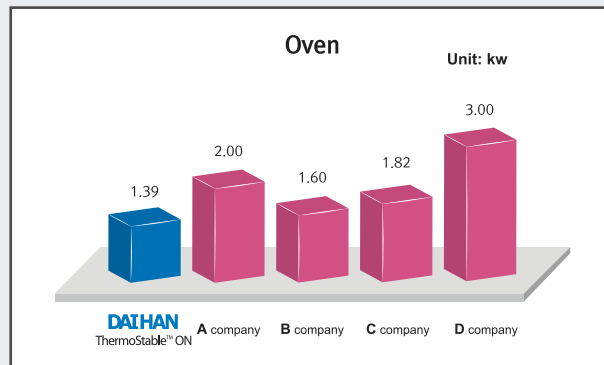
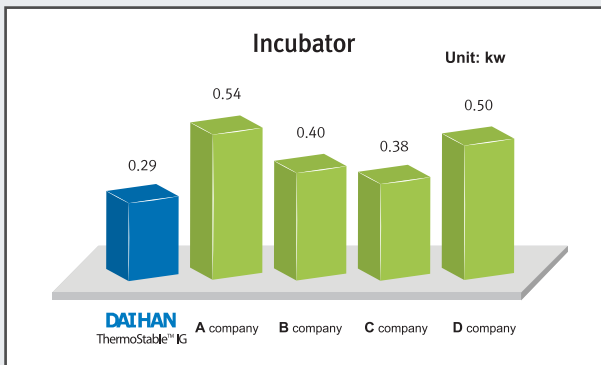
» Temperature Uniformity Completely Tested by ASTM Standards

All the units supplied by DAIHAN Scientific are thoroughly tested, using 12 temperature sensors and the latest instruments to obtain validation, which corresponds to international standards. That is, Fluctuation and Variation (Uniformity) standards described in catalogues are actually guaranteed as the same.

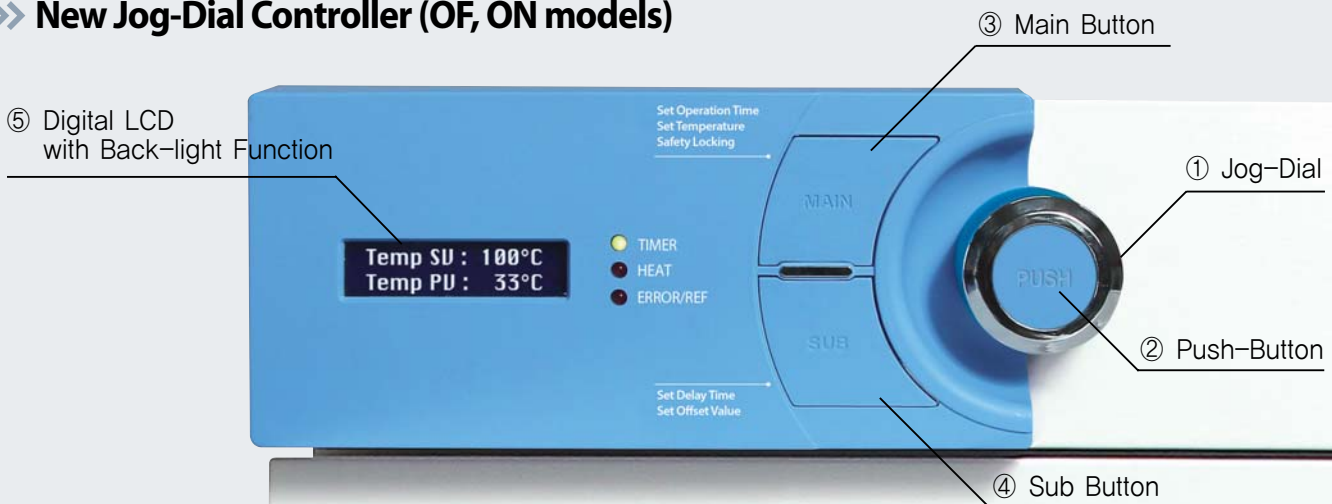


» Green Product

This is an environment-friendly product that achieves minimum power consumption by using heating element consuming minimum power for the capacity and temperature of the chamber, high-quality insulator and insulation structure, and complete door structure that guarantees shielding.



» New Jog-Dial Controller (OF, ON models)



- Provides the user interface with an ergonomic design for users to operate in an easy and convenient way.
- A new 2-way Jog-Dial Knob (Jog Dial + Push Button) and presents excellent durability and mobility.
- High-quality LCD with Back-light function.
- A durable Main Button and a Sub Button that features superb and user-friendly operation.

<Continued from... **DAIHAN ThermoStable™ ON** Ovens, Gravity Convection-type>

Ordering Information

Standard Model, Gravity/Natural Flow, with Wire Shelves

DH.WON05032	Oven, Standard, 230V, 32 Lit., "ThermoStable ON-32"
DH.WON05050	, 50 Lit., "ThermoStable ON-50"
DH.WON05105	, 105 Lit., "ThermoStable ON-105"
DH.WON05155	, 155 Lit., "ThermoStable ON-155"
DH.WON06032	Oven, Standard, 120V, 32 Lit., "ThermoStable ON-32"
DH.WON06050	, 50 Lit., "ThermoStable ON-50"
DH.WON06105	, 105 Lit., "ThermoStable ON-105"
DH.WON06155	, 155 Lit., "ThermoStable ON-155"

Built in Viewing Window Model, Gravity/Natural Flow, with Wire Shelves

DH.WON07105	Oven, Window, 230V, 105 Lit., "ThermoStable ON-W105"
DH.WON07155	, 155 Lit., "ThermoStable ON-W155"
DH.WON08105	Oven, Window, 120V, 105 Lit., "ThermoStable ON-W105"
DH.WON08155	, 155 Lit., "ThermoStable ON-W155"

Spare Wire Shelves, Stainless steel

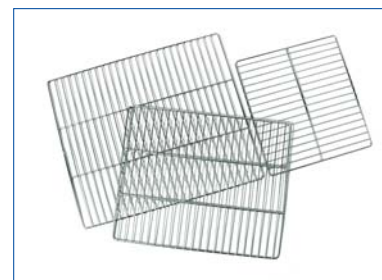
DH.WON11032	Wire Shelf, for 32 Lit., "ONS032", w280×d280mm
DH.WON11050	, for 50 Lit., "ONS050", w340×d310mm
DH.WON11105	, for 105 Lit., "ONS105", w455×d375mm
DH.WON11155	, for 155 Lit., "ONS155", w520×d440mm

Validation (IQ, OQ) Service

DH.WON31032	Validation Service(IQ, OQ), "ONV1032", for "ON-32"
DH.WON31050	, "ONV1050", for "ON-50"
DH.WON31105	, "ONV1105", for "ON-105"
DH.WON31155	, "ONV1155", for "ON-155"
DH.WON32105	Validation Service(IQ, OQ), "ONV2105", for "ON-W105"
DH.WON32155	, "ONV2155", for "ON-W155"



Window Model, "ThermoStable ON-W105"



Wire Shelves, Stainless steel
(Included)

WiseRemote® Remote Control Software

Connection of **Wisd** Temperature Devices with Interface RS232C to a PC Export Recorded Data (Excel Spreadsheet)



Main Screen



RS232C Cable & Software