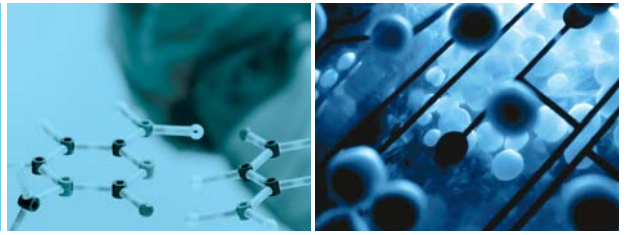


Features of DAIHAN Incubators



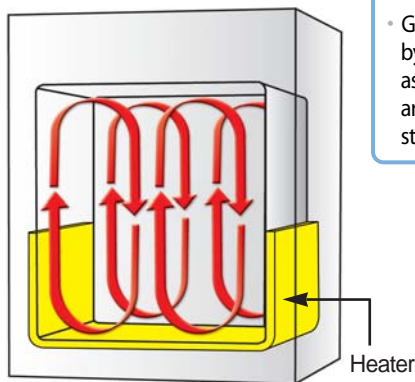
High Performance Heating Mechanism of DAIHAN accomplishing world's best temperature accuracy and uniformity

The new types of Incubator 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).

» Incubators

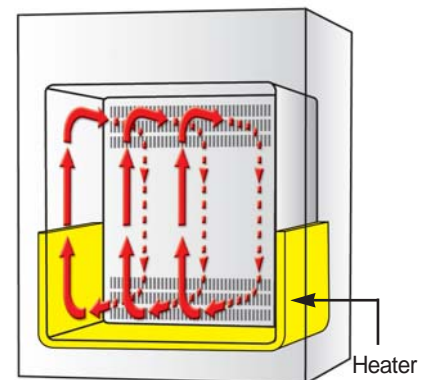


Gravity Convection

- Gravity convection is to be supplemented and maximized by way of forming radiant and conductive heat on the bottom as well as both sides of the chamber, while heating elements are fitted closely to the three sides outside the chamber by the steel structure of 1.5mm in thickness.

Forced Convection

- The same heating structure as Gravity Air-Flow model.
- Installs an air-flow room with a fan built in the back side of the chamber to achieve effective forced convection.
- Achieves high temperature uniformity and minimizes mutual contamination between samples by maintaining air flow in forced convection to top.



■ High Performance Heating Mechanism

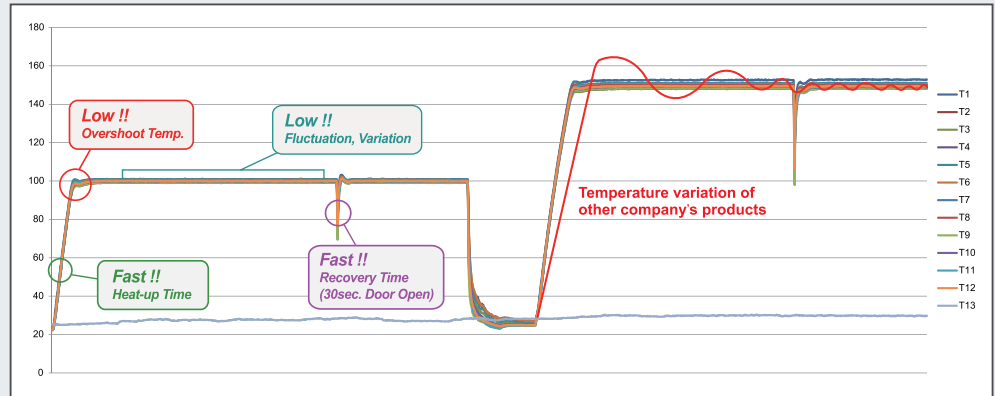
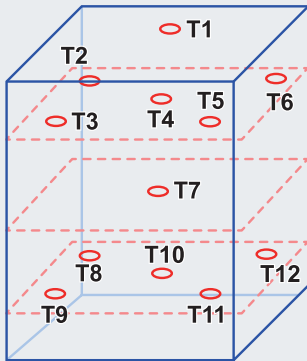
The world's best performance and quality coming true via innovative heating mechanism !!

- » **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

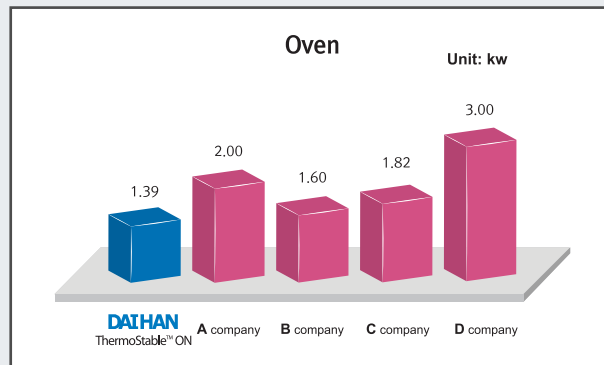
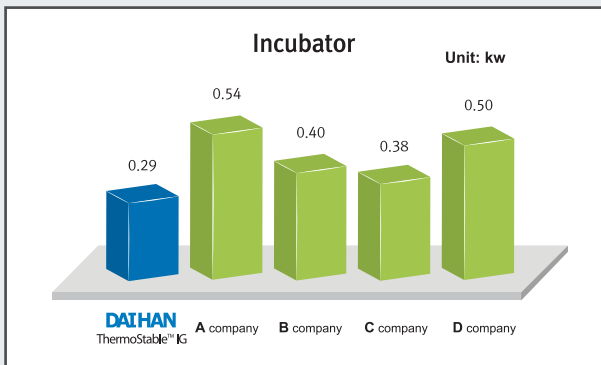
» Temperature Uniformity Completely Tested by ASTM Standards

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.

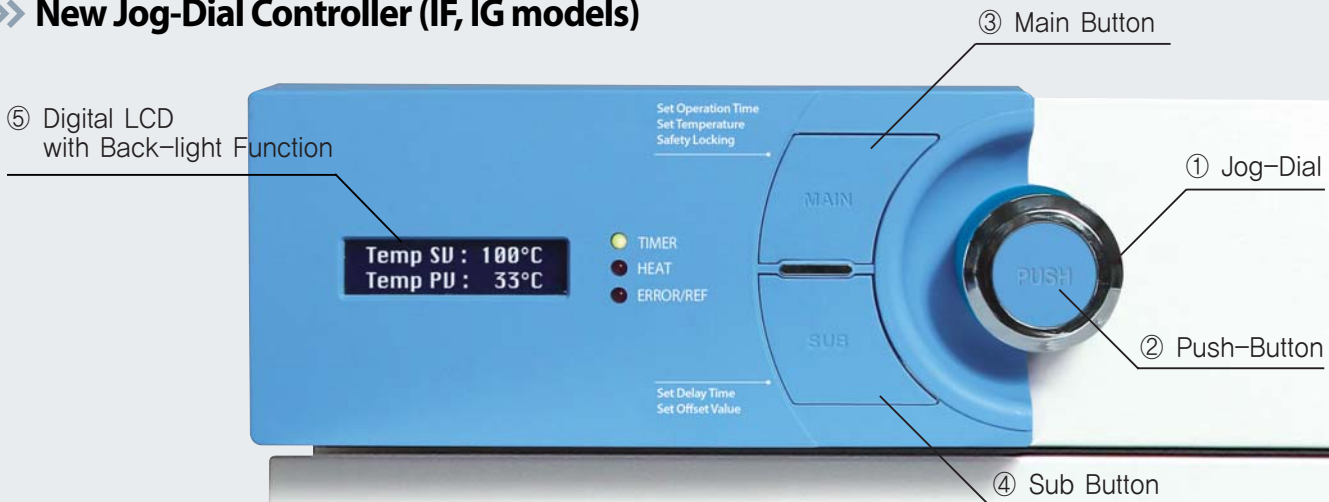


» Green Product

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 (IF, IG 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.

| Cat. No | Description | Articles |
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<Continued from... **DAIHAN ThermoStable™ IG** Incubators, Gravity Convection-type>

Ordering Information

- DH.WIG03032 Incubator, Gravity, 230V, 32 Lit., "ThermoSatble IG-32"
- DH.WIG03050 , 50 Lit., "ThermoSatble IG-50"
- DH.WIG03105 , 105 Lit., "ThermoSatble IG-105"
- DH.WIG03155 , 155 Lit., "ThermoSatble IG-155"
- DH.WIG04032 Incubator, Gravity, 120V, 32 Lit., "ThermoSatble IG-32"
- DH.WIG04050 , 50 Lit., "ThermoSatble IG-50"
- DH.WIG04105 , 105 Lit., "ThermoSatble IG-105"
- DH.WIG04155 , 155 Lit., "ThermoSatble IG-155"

Spare Wire Shelves, Teflon Coated steel

- DH.WIG11032 Wire Shelf, Teflon Coated steel, with 2 Brackets, for 32 Lit., "IGS032", w280 × d260mm
- DH.WIG11050 Wire Shelf, Teflon Coated steel, with 2 Brackets, for 50 Lit., "IGS050", w340 × d310mm
- DH.WIG11105 Wire Shelf, Teflon Coated steel, with 2 Brackets, for 105 Lit., "IGS105", w455 × d375mm
- DH.WIG11105 Wire Shelf, Teflon Coated steel, with 2 Brackets, for 155 Lit., "IGS155", w520 × d440mm

Optional Wire Shelves, Stainless steel

- DH.WIG12032 Wire Shelf, Stainless steel, with 2 Brackets, for 32 Lit., "IGSN032", w280 × d260mm
- DH.WON11050 Wire Shelf, Stainless steel, with 2 Brackets, for 50 Lit., "ONS050", w340 × d310mm
- DH.WON11105 Wire Shelf, Stainless steel, with 2 Brackets, for 105 Lit., "ONS105", w455 × d375mm
- DH.WON11155 Wire Shelf, Stainless steel, with 2 Brackets, for 155 Lit./305Lit., "ONS155", w520 × d440mm

Validation (IQ, OQ) Service

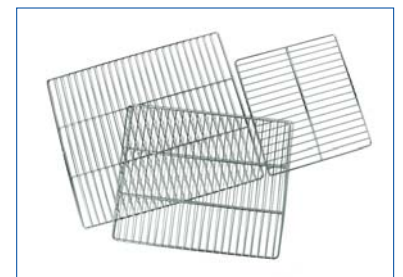
- DH.WIG31032 Validation Service(IQ, OQ), "IGV032", for "ThermoSatble IG-32"
- DH.WIG31050 , "IGV050", for "ThermoSatble IG-50"
- DH.WIG31105 , "IGV105", for "ThermoSatble IG-105"
- DH.WIG31155 , "IGV155", for "ThermoSatble IG-155"



Incubator, Gravity Convection-type, "ThermoStable IG-105"



Wire Shelves, Teflon Coated steel (Included)



Wire Shelves, Stainless steel (Optional)

WiseRemote® Remote Control Software

Connection of Wisd 2.2 Temperature Devices with Interface RS232C to a PC Export Recorded Data (Excel Spreadsheet)



Main Screen



RS232C Cable & Software