

Incubators

General Purpose, General-purpose, Forced-air	3
Gravity-air	7
, Multi-room, Forced-air	11
Heating Block/Dry Bath Incubator	13
Humidity/Temp./Test Chamber	17
Low Temp.(B.O.D) , General-type	21
, SMART-type	23
Plant Growth Chamber, SMART-type	25
Shaking , Front Door-type	27
, Bench Top-type	29
, Top Door-type	30
, MultiStack, Refrigerated	32



BOD Incubators
"ThermoStable™ IR-250"



Incubators, Gravity Air
"ThermoStable™ SIG-105"



Incubators, Forced-air
"ThermoStable™ IF-105"



Multi-room Incubators
"WIM-4"



Shaking Incubators
"ThermoStable™ IS-30"

Maximum Convenience by Advanced Digital Technology

Features of DAIHAN Incubators



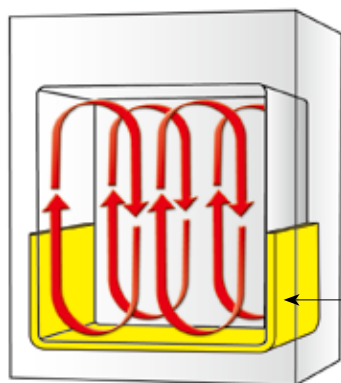
High Performance Heating Mechanism of DAIHAN accomplishing world's best temperature accuracy and uniformity

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

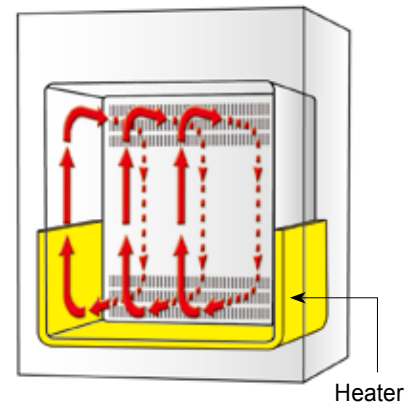


Gravity-air

- 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-air

- 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

DAIHAN-brand® Forced-air Incubators “ThermoStable™ IF”, 3-Side Heating Zone, 50-/105-/155 Lit.
 With 2 × Wire Shelves/Digital PID Control/Jog-Dial & Push Button/Digital LCD/Backlight/Certi. & Traceability, up to 70°C, ±0.2°C



“ThermoStable™ IF-105”, Forced-air Incubator

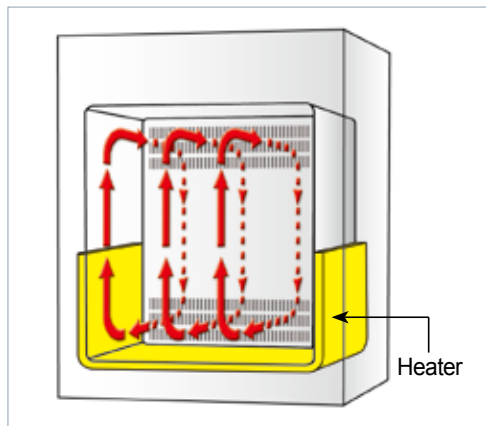
- Made in Korea
- UL / CUL Certified
- CE Certified
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Optimized Air Flow by Forced-air Mechanism
- 3-Side Heating Mechanism : The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism
- Patented Jog-Dial Control System
- GD(Good Design)-mark
- PL(Product Liability) Insurance

- * Various Application : Microorganism Culture, Animal & Plant Cell Culture, Constant Temp., Germination, and so on
- * Optimized Air Flow by Forced-air Mechanism
- * Digital PID Control System Implementing Superior Temperature Accuracy
- * New Jog-Dial with Push Button
- * Compact New Body Design
- * 2 ea of PE-coated steel Wire Shelves Included
- * Alarm Function : Error status and Timer-end
- * RS232C Interface for Monitoring and Controlling with PC
- * Ambient to 70°C of Temp. Range, Fluctuation of ± 0.2°C at 37°C, ± 0.3°C at 50°C
- * Storage Function of Temperature and Timer setting values
- * Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be disabled)
- * Corrosion Resistant 304 Stainless-steel Chamber
- * Incubator Temperature & Incubator Current Protection, Sensor Error Detection

Specification

Spec.		Model	ThermoStable™ IF-50	ThermoStable™ IF-105	ThermoStable™ IF-155
Capacity			50 Lit.	105 Lit.	155 Lit.
Dimension (w×d×h)	Interior (mm)		370×350×419	485×410×533	550×475×600
	Exterior (mm)		518×637×700	635×695×841	700×760×906
Heater Power			200W	300W	400W
Temp.	Range	Room Temp. +5°C to 70°C			
	Fluctuation	± 0.2°C at 37°C, ± 0.3°C at 50°C			
	Variation	± 0.5°C at 37°C, ± 0.9°C at 50°C	± 0.4°C at 37°C, ± 0.7°C at 50°C		
		Sensor	PT 100		
Control Resolution			± 0.1°C		
Heat-up Time			17 min. to 37°C, 28 min. to 50°C	17 min. to 37°C, 30 min. to 50°C	
Recovery Time (Door open 30sec)			3 min. to 37°C, 4 min. to 50°C		
Controller			Digital PID Control by Advanced Microprocessor Jog-Dial with Push Button		
RS232 Port			Available to connect with PC		
Display			Digital LCD with Back Light		
Timer			99hr 59 min (delay/continuous function)		
Material	Internal		Stainless-steel (#304)		
	External		Powder Coated steel		
	Inner Door		Inner Tempered Glass Door		
Shelves			2ea of PE-coated steel Wire Shelves included, Load per Shelf : 16 kg		
Ventilation			1ea of Ventilation hole with Stainless steel Cap, Hole Diameter 40mm		
Circulation			Forced-air Type		
Safety device			Over Temp. and Over Current Protector, Sensor Error Detector		
Others			UL/CUL Certified, CE Certified, GD-mark Storage Function(Temp. and Time) Locking Mode(Jog-Dial Input Disabled) Alarm (Error Status and Timer-end)		
Net Weight (kg)			46	66	81
Packing Size (w×d×h) (mm)			628×752×775	710×731×1,018	731×810×1,018
Shipping Weight (kg)			58	74	92
Power Consumption			216.3 W	302.9 W	438.1 W
Energy Consumption, at 37°C, at 50°C			28 Wh	43 Wh	58 Wh
			84 Wh	129 Wh	145 Wh
Electrical Reqts.			120V, 60Hz or 230V, 50/60Hz		

* Other Specifications are available upon Customer's Request.



3-Side Heating Zone : The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism.

<Continued On Next Page>

<Continued From...DAIHAN-brand® Forced-air Incubators "ThermoStable™ IF">

Ordering Information

DH.WIF03050 Incubator, Forced, 230V, 50 Lit, "ThermoStable IF-50"
 DH.WIF03105 , 105 Lit, "ThermoStable IF-105"
 DH.WIF03155 , 155 Lit, "ThermoStable IF-155"

Spare PE-coated Steel Wire Shelves

DH.WIG11050 Wire Shelf, PE-coated Steel, with 2 Brackets, for 50 Lit,
 "IGS050", w340 × d310mm
 DH.WIG11105 Wire Shelf, PE-coated Steel, with 2 Brackets, for 105 Lit,
 "IGS105", w455 × d375mm
 DH.WIG11155 Wire Shelf, PE-coated Steel, with 2 Brackets, for 155 Lit,
 "IGS155", w520 × d440mm

Optional Stainless-steel Wire Shelves

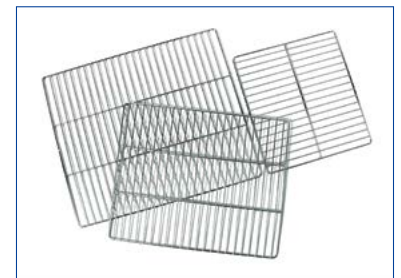
DH.WON11050 Wire Shelf, Stainless-steel, with 2 Brackets, for 50 Lit,
 "ONS050", w340 × d310mm
 DH.WON11105 Wire Shelf, Stainless-steel, with 2 Brackets, for 105 Lit,
 "ONS105", w455 × d375mm
 DH.WON11155 Wire Shelf, Stainless-steel, with 2 Brackets, for 155 Lit,
 "ONS155", w520 × d440mm



"ThermoStable IF-105", Forced-air Incubator



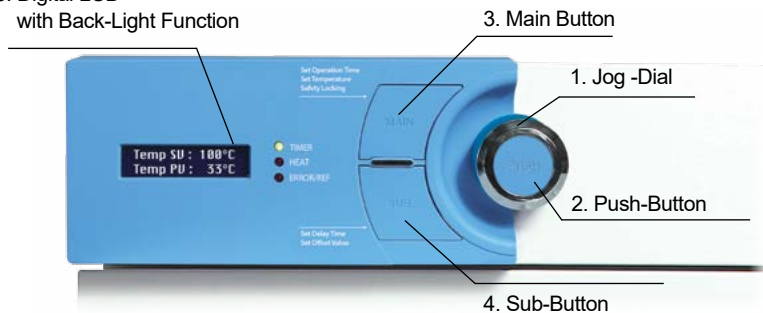
Wire Shelves, PE-coated Steel
(Included)



Wire Shelves, Stainless-steel
(Optional)

»» New Jog-Dial Controller

5. Digital LCD
with Back-Light Function



- 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.



Learn more!
Watch the Video

<http://bit.ly/2XNupbj>



WiseRemote Control Software :

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

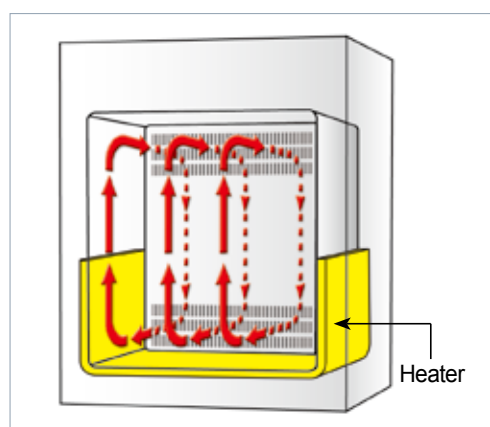
* You can Download this Software at
DAIHAN-Sci.com Shopping-mall

DAIHAN-brand® SMART Forced-air Incubators “**ThermoStable™ SIF**”, 50-/105-/155 Lit, 3-Side Heating Zone with **Smart-Lab™ Controller**/4” Full Touch Screen/Fuzzy-PID Control/2 × Wire Shelves/Certi. & Traceability, up to 70°C, ±0.2°C



“**ThermoStable™ SIF-105**”, SMART Forced-air Incubator

- **Made in Korea** ■ **UL / CUL Certified** ■ **CE Certified**
- **with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System**
- **Optimized Air Flow by Forced-air Mechanism**
- **3-Side Heating Mechanism : The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism**
- **Smart-Lab™ Controller**
- **GD(Good Design)-mark** ■ **PL(Product Liability) Insurance**
- * Various Application : Microorganism Culture, Animal & Plant Cell Culture, Constant Temp, Germination, and so on
- * Optimized Air Flow by Forced-air Mechanism
- * Ergonomic Design 4” Full Touch Screen TFT LCD(Smart-Lab™ Controller)
- * WiRe™ App Service. * Automatic Data Recording
- * Self-Diagnostic Function * Internet Connectivity with WIFI
- * Variable Program Setting for Multiple Patterns with Multiple Segments
- * The Recorded Data Could be transferred to PC by USB memory
- * Compact New Body Design * Controller SW can be upgraded through USB port.
- * 2ea of PE-coated steel Wire Shelves Included
- * RS232C Interface for Monitoring and Controlling with PC
- * Ambient to 70°C of Temp. Range, Fluctuation of ±0.2°C at 37°C, ±0.3°C at 50°C
- * Corrosion Resistant 304 Stainless-steel Chamber
- * Incubator Temperature & Incubator Current Protection, Sensor Error Detection



3-Side Heating Zone : The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism.

Specification

Spec.	Model	ThermoStable™ SIF-50	ThermoStable™ SIF-105	ThermoStable™ SIF-155
Capacity		50 Lit.	105 Lit.	155 Lit.
Dimension (w×d×h)	Interior (mm)	370×350×419	485×410×533	550×475×600
	Exterior (mm)	518×637×700	635×695×841	700×760×906
Heater Power		200W	300W	400W
Temp.	Range	Room Temp. +5°C to 70°C		
	Fluctuation	± 0.2°C at 37°C, ± 0.3°C at 50°C		
	Variation	± 0.5°C at 37°C, ± 0.9°C at 50°C	± 0.4°C at 37°C, ± 0.7°C at 50°C	
	Sensor	PT 100		
Control Resolution		±0.1°C		
Heat-up Time		17 min. to 37°C, 28 min. to 50°C	17 min. to 37°C, 30 min. to 50°C	
Recovery Time (Door open 30sec)		3 min. to 37°C, 4 min. to 50°C		
Controller		Smart-Lab™ Controller		
RS232		Port Available to connect with PC		
Display		4”Full Touch Screen TFT LCD		
Timer		99hr 59 min (delay/continuous function)		
Material	Internal	Stainless-steel (#304)		
	External	Powder Coated steel		
	Inner Door	Inner Tempered Glass Door		
Shelves		2ea of PE-coated steel Wire Shelves included, Load per Shelf : 16 kg		
Ventilation		1ea of Ventilation hole with Stainless steel Cap, Hole Diameter 40mm		
Circulation		Forced-air Type		
Safety device		Over Temp. and Over Current Protector, Sensor Error Detector		
Others		UL/CUL Certified, CE Certified, GD-mark Storage Function (Temp. and Time) Alarm (Error Status and Timer-end)		
Net Weight (kg)		46	66	81
Packing Size (w×d×h) (mm)		628×752×775	710×731×1,018	731×810×1,018
Shipping Weight (kg)		58	74	92
Power Consumption		216.3 W	302.9 W	438.1 W
Energy Consumption, at 37°C, at 50°C		28 Wh	43 Wh	58 Wh
		84 Wh	129 Wh	145 Wh
Electrical Reqts.		120V, 60Hz or 230V, 50/60Hz		

* Other Specifications are available upon Customer's Request.



Display of Smart-Lab™ Controller

<Continued On Next Page>

<Continued From...DAIHAN-brand® SMART Forced-air Incubators “ThermoStable™ SIF”>

Ordering Information

DH.SWIF03050 Incubator, Forced, 230V, 50 Lit, “ThermoStable SIF-50”
 DH.SWIF03105 , 105 Lit, “ThermoStable SIF-105”
 DH.SWIF03155 , 155 Lit, “ThermoStable SIF-155”

Spare PE-coated Steel Wire Shelves

DH.WIG11050 Wire Shelf, PE-coated Steel, with 2 Brackets, for 50 Lit,
 “IGS050”, w340 × d310mm
 DH.WIG11105 Wire Shelf, PE-coated Steel, with 2 Brackets, for 105 Lit,
 “IGS105”, w455 × d375mm
 DH.WIG11155 Wire Shelf, PE-coated Steel, with 2 Brackets, for 155 Lit,
 “IGS155”, w520 × d440mm

Optional Stainless-steel Wire Shelves

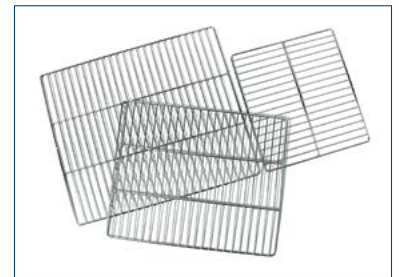
DH.WON11050 Wire Shelf, Stainless-steel, with 2 Brackets, for 50 Lit,
 “ONS050”, w340 × d310mm
 DH.WON11105 Wire Shelf, Stainless-steel, with 2 Brackets, for 105 Lit,
 “ONS105”, w455 × d375mm
 DH.WON11155 Wire Shelf, Stainless-steel, with 2 Brackets, for 155 Lit,
 “ONS155”, w520 × d440mm



“ThermoStable SIF-105”,
 SMART Forced-air Incubator



Wire Shelves, PE-coated Steel
 (Included)



Wire Shelves, Stainless-steel
 (Optional)

»» DAIHAN WiRe™ App Service



4" Full Touch Screen TFT LCD
 (Smart-Lab™ Controller)

It is possible to monitor and control the Smart-Lab™ equipment through all smart phone, tablet without restraint of time and place.



WiRe™ App Service

Controlled by Smart-Phone

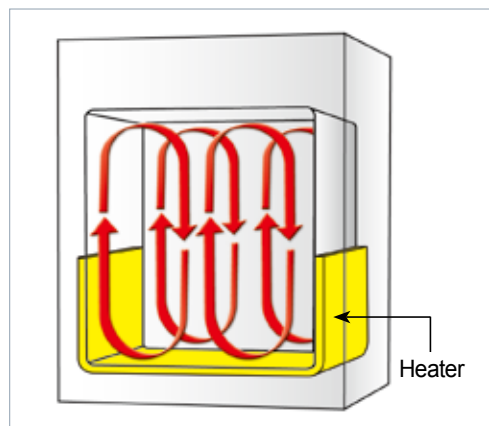
DAIHAN-brand® Gravity-air Incubators “ThermoStable™ IG”, 3-Side Heating Zone, 32-/50-/105-/155 Lit. with 2 × Wire Shelves/Digital PID Control,/Jog-Dial & Push Button/Digital LCD & Backlight/Certi. & Traceability, up to 70°C, ±0.2°C



“ThermoStable™ IG-105”, Gravity-air Incubator

- Made in Korea
 - UL / CUL Certified
 - CE Certified
 - with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
 - Optimized Air Circulation by Gravity-air preventing Cross Contamination of Samples
 - 3-Side Heating Mechanism : The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism
 - Patented Jog-Dial Control System
 - GD(Good Design)-mark
 - PL(Product Liability) Insurance
- * Various Application : Microorganism Culture, Animal & Plant Cell Culture, Constant Temp., Germination, and so on
- * Optimized Air Circulation by Gravity-air preventing Cross Contamination of Samples
- * Digital PID Control System Implementing Superior Temperature Accuracy
- * New Jog-Dial with Push Button
- * Compact New Body Design
- * 2 ea of PE-coated Steel Wire Shelves included
- * RS232C Interface for Monitoring and Controlling with PC
- * Ambient to 70°C of Temp. Range, Fluctuation of ±0.2°C at 37°C, ±0.3°C at 50°C
- * Alarm Function : Error status and Timer-end
- * Storage Function of Temperature and Timer setting values
- * Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be disabled)
- * Corrosion Resistant 304 Stainless-steel Chamber
- * Incubator Temperature & Incubator Current Protection, Sensor Error Detection

Specification



3-Side Heating Zone : The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism.

Spec.		Model	ThermoStable™ IG-32	ThermoStable™ IG-50	ThermoStable™ IG-105	ThermoStable™ IG-155
Capacity			32 Lit.	50 Lit.	105 Lit.	155 Lit.
Dimension (w×d×h)	Interior (mm)		312×290×360	370×350×420	485×410×535	550×475×600
	Exterior (mm)		458×477×624	518×537×701	635×595×841	700×660×906
Heater Power			150W	200W	300W	400W
Temp.	Range		Range Room Temp. +5°C to 70°C			
	Fluctuation		± 0.2°C at 37°C, ± 0.3°C at 50°C			
	Variation		± 0.6°C at 37°C, ± 1.0°C at 50°C			
	Sensor		PT 100			
Control Resolution			±0.1°C			
Heat-up Time			25 min. to 37°C, 40 min. to 50°C			30 min. to 37°C, 40 min. to 50°C
Recovery Time (Door open 30sec)			8 min. to 37°C, 12 min. to 50°C		10 min. to 37°C, 15 min. to 50°C	
Controller			Digital PID Control by Advanced Microprocessor Jog-Dial with Push Button			
RS232			Available to connect with PC			
Display			Digital LCD with Back Light			
Timer			99hr 59 min (delay/continuous function)			
Material	Internal		Stainless-steel (#304)			
	External		Powder Coated steel			
	Inner Door		Inner Tempered Glass Door			
Shelves			2ea of PE-coated Steel Wire Shelves included, Load per Shelf : 16 kg			
Ventilation			1ea of Ventilation hole with Stainless-steel Cap, Hole Diameter 40mm			
Circulation			Gravity-air Type			
Safety device			Over Temp. and Over Current Protector, Sensor Error Detector			
Others			UL/CUL Certified, CE Certified, GD-mark Storage Function (Temp. and Time) Locking Mode (Jog-Dial Input Disabled) Alarm (Error Status and Timer-end)			
Net Weight (kg)			32	40	59	71
Packing Size (w×d×h) (mm)			568×592×698	628×652×775	731×710×1,018	796×775×1,083
Shipping Weight (kg)			39	53	67	78
Power Consumption			159 W	169.9 W	292.9 W	420.5 W
Energy Consumption, at 37°C, at 50°C			34 Wh	41 Wh	63 Wh	99 Wh
			81 Wh	103 Wh	152 Wh	212 Wh
Electrical Reqts.			120V, 60Hz or 230V, 50/60Hz			

* Other Specifications are available upon Customer's Request.

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<Continued From... DAIHAN-brand® Gravity-air Incubators "ThermoStable™ IG">

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"

Spare PE-coated Steel Wire Shelves

DH.WIG11032	Wire Shelf, PE-coated Steel, with 2 Brackets, for 32 Lit, "IGS032", w280 × d260mm
DH.WIG11050	Wire Shelf, PE-coated Steel, with 2 Brackets, for 50 Lit, "IGS050", w340 × d310mm
DH.WIG11105	Wire Shelf, PE-coated Steel, with 2 Brackets, for 105 Lit, "IGS105", w455 × d375mm
DH.WIG11155	Wire Shelf, PE-coated Steel, with 2 Brackets, for 155 Lit, "IGS155", w520 × d440mm

Optional Stainless-steel Wire Shelves

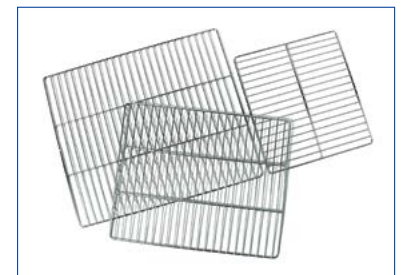
DH.WIG12032	Wire Shelf, Stainless-steel, with 2 Brackets, for 32 Lit, "IGSN032", w280 × d260mm
DH.WON11050	Wire Shelf, Stainless-steel, with 2 Brackets, for 50 Lit, "ONS050", w340 × d310mm
DH.WON11105	Wire Shelf, Stainless-steel, with 2 Brackets, for 105 Lit, "ONS105", w455 × d375mm
DH.WON11155	Wire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



"ThermoStable IG-105", Gravity-air Incubator



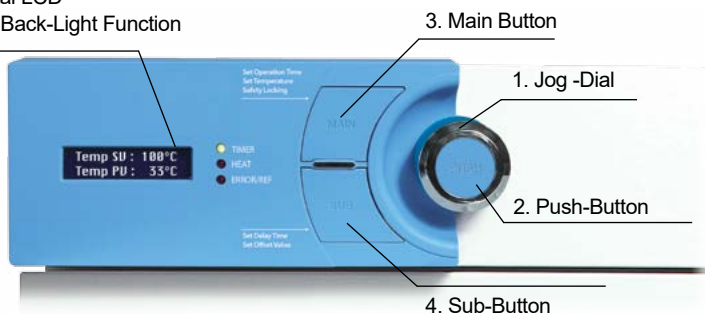
Wire Shelves, PE-coated Steel (Included)



Wire Shelves, Stainless-steel (Optional)

» New Jog-Dial Controller

5. Digital LCD with Back-Light Function



- 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.

[Learn more!](#)
[Watch the Video](#)

<http://bit.ly/2XNupbj>



WiseRemote Control Software :

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

* You can Download this Software at DAIHAN-Sci.com Shopping-mall

DAIHAN-brand® SMART Gravity-air Incubators “ThermoStable™ SIG”, 3-Side Heating Zone, 32-/50-/105-/155 Lit. with Smart-Lab™ Controller/4” Full Touch Screen/Fuzzy-PID Control/2 × Wire Shelves/Certi. & Traceability, up to 70°C, ±0.2°C



“ThermoStable™ SIG-105”, SMART Gravity-air Incubator

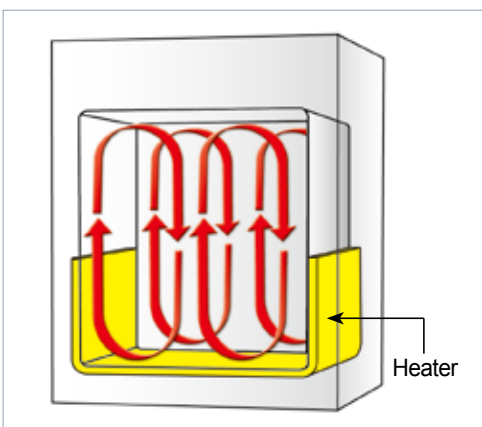
- Made in Korea
- UL / CUL Certified
- CE Certified
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Optimized Air Circulation by Natural Flow preventing Cross Contamination of Samples
- 3-Side Heating Mechanism : The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism
- Smart-Lab™ Controller
- GD(Good Design)-mark
- PL(Product Liability) Insurance

- * Various Application : Microorganism Culture, Animal & Plant Cell Culture, Constant Temp., Germination, and so on
- * Optimized Air Circulation by Natural Flow preventing Cross Contamination of Samples
- * Ergonomic Design 4” Full Touch Screen TFT LCD(Smart-Lab™ Controller)
- * WiRe™ App Service.
- * Automatic Data Recording
- * Self-Diagnostic Function
- * 2 ea of PE-coated steel Wire Shelves Included
- * Variable Program Setting for Multiple Patterns with Multiple Segments
- * The Recorded Data could be transferred to PC by USB memory
- * Controller SW can be upgraded through USB port.
- * Internet Connectivity with WiFi
- * Compact New Body Design
- * RS232C Interface for Monitoring and Controlling with PC
- * Ambient to 70°C of Temp. Range, Fluctuation of ±0.2°C at 37°C, ±0.3°C at 50°C
- * Corrosion Resistant 304 Stainless-steel Chamber
- * Over Temperature & Over Current Protection, Sensor Error Detection

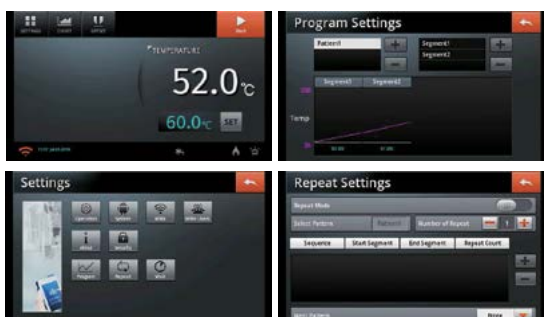
Specification

Spec.	Model	ThermoStable™ SIG-32	ThermoStable™ SIG-50	ThermoStable™ SIG-105	ThermoStable™ SIG-155
Capacity		32 Lit.	50 Lit.	105 Lit.	155 Lit.
Dimension (w × d × h)	Interior (mm)	312 × 290 × 360	370 × 350 × 420	485 × 410 × 535	550 × 475 × 600
	Exterior (mm)	458 × 477 × 624	518 × 537 × 701	635 × 595 × 841	700 × 660 × 906
Heater Power		150W	200W	300W	400W
Temp.	Range	Room Temp. +5°C to 70°C			
	Fluctuation	± 0.2°C at 37°C, ± 0.3°C at 50°C			
	Variation	± 0.6°C at 37°C, ± 1.0°C at 50°C			
	Sensor	PT 100			
Control Resolution		±0.1°C			
Heat-up Time		25 min. to 37°C, 40 min. to 50°C		30 min. to 37°C, 40 min. to 50°C	
Recovery Time (Door open 30sec)		8 min. to 37°C 12 min. to 50°C		10 min. to 37°C 15 min. to 50°C	
	Controller	Smart-Lab™ Controller			
RS232		Available to connect with PC			
Display		4" Full Touch Screen TFT LCD			
Timer		99hr 59 min (delay/continuous function)			
Material	Internal	Stainless-steel (#304)			
	External	Powder Coated steel			
	Inner Door	Inner Tempered Glass Door			
Shelves		2ea of PE-coated steel Wire Shelves included, Load per Shelf : 16 kg			
Ventilation		1ea of Ventilation hole with Stainless-steel Cap, Hole Diameter 40mm			
Circulation		Gravity-air Type			
Safety device		Over Temp. and Over Current Protector, Sensor Error Detector			
Others		UL/CUL Certified, CE Certified, GD-mark Storage Function (Temp. and Time) Alarm (Error Status and Timer-end)			
Net Weight (kg)		32	40	59	71
Packing Size (w × d × h) (mm)		568 × 592 × 698	628 × 652 × 775	731 × 710 × 1,018	796 × 775 × 1,083
Shipping Weight (kg)		39	53	67	78
Power Consumption		159 W	169.9 W	292.9 W	420.5 W
Energy Consumption, at 37°C, at 50°C		34 Wh	41 Wh	63 Wh	99 Wh
		81 Wh	103 Wh	152 Wh	212 Wh
Electrical Rqts.		120V, 60Hz or 230V, 50/60Hz			

* Other Specifications are available upon Customer's Request.



3-Side Heating Zone : The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism.



Display of Smart-Lab™ Controller

<Continued On Next Page>

<Continued From...DAIHAN-brand® SMART Gravity-air Incubators “ThermoStable™ SIG”>

Ordering Information

DH.SWIG03032	Incubator, Gravity, 230V, 32 Lit, “ThermoStable SIG-32”
DH.SWIG03050	, 50 Lit, “ThermoStable SIG-50”
DH.SWIG03105	, 105 Lit, “ThermoStable SIG-105”
DH.SWIG03155	, 155 Lit, “ThermoStable SIG-155”

Spare PE-coated Steel Wire Shelves

DH.WIG11032	Wire Shelf, PE-coated Steel, with 2 Brackets, for 32 Lit, “IGS032”, w280 × d260mm
DH.WIG11050	Wire Shelf, PE-coated Steel, with 2 Brackets, for 50 Lit, “IGS050”, w340 × d310mm
DH.WIG11105	Wire Shelf, PE-coated Steel, with 2 Brackets, for 105 Lit, “IGS105”, w455 × d375mm
DH.WIG11155	Wire Shelf, PE-coated Steel, with 2 Brackets, for 155 Lit, “IGS155”, w520 × d440mm

Optional Stainless-steel Wire Shelves

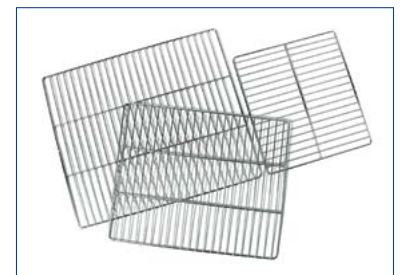
DH.WIG12032	Wire Shelf, Stainless-steel, with 2 Brackets, for 32 Lit, “IGSN032”, w280 × d260mm
DH.WON11050	Wire Shelf, Stainless-steel, with 2 Brackets, for 50 Lit, “ONS050”, w340 × d310mm
DH.WON11105	Wire Shelf, Stainless-steel, with 2 Brackets, for 105 Lit, “ONS105”, w455 × d375mm
DH.WON11155	Wire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



“ThermoStable SIG-105”,
SMART Gravity-air Incubator



Wire Shelves, PE-coated Steel
(Included)



Wire Shelves, Stainless-steel
(Optional)

» DAIHAN WiRe™ App Service



4" Full Touch Screen TFT LCD
(Smart-Lab™ Controller)

It is possible to monitor and control the Smart-Lab™ equipment through all smart phone, tablet without restraint of time and place.



WiRe™ App Service

Controlled by Smart-Phone

DAIHAN-brand® Multi-Room Incubator “WIM”, Forced-air, 125 Lit × 4 Rooms, with Certi. & Traceability with 8 × Wire Shelves, Digital Fuzzy Control, Independent Chamber Control, Max. Temp. Uniformity & Accuracy, up to 70 °C



(1) Multi-Room Incubator, Forced-air, “WIM-R4”

- Made in Korea ■ UL/CUL Certified ■ CE Certified
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- 4×125Lit Rooms : Each Chamber has an Independent Fuzzy Controller for Different Temperature and Time Control
- Patented Jog-Shuttle Control System ■ PL (Product Liability) Insurance
- * Variable Application : Microorganism Culture, Animal & Plant Cell Culture, Constant Temperature and Germination
- * Digital Fuzzy Control System Implementing Superior Temperature Accuracy.
- * High-Quality LCD with Back-Light Function
- * Forced-air Flow by Silent Fan Motor Implements the Highest Uniformity of Temperature in Each Chamber
- * Stainless-steel Chamber and PE-coated Shelves (2ea for Each Chamber) - Corrosion Resistance
- * Inner Tempered Glass Door Enables an User to Observe the Samples without Interruption of Incubation
- * Over Temperature & Over Current Protection, Sensor Error Detection and Leakage Breaking.
- * Storage Function for Set Values of Temperature and Time
- * Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)

Specification

Spec.	Model	(1) “WIM-4”	(2) “WIM-R4”	(3) “WIM-RL4” with illumination
Temp. Range		R/T +5 °C ~ 70 °C	0 °C to 70 °C	0 °C to 70 °C
Circulation		Forced-air(Blower FAN)		
Capacity		125 Lit. × 4 Rooms		
Illumination		None	FRL 36W × 2 (× 4 Rooms)	
Temp.	Accuracy	± 0.2 °C at 37 °C		
	Uniformity	± 0.3 °C at 37 °C, ± 0.7 °C at 50 °C	± 0.5 °C at 37 °C	
	Sensor	PT100		
Heat-up Time		15 min. to 37 °C 30 min. to 50 °C	20 min. to 37 °C 30 min. to 50 °C	
Recovery Time (Door open 30sec)		8 min. to 37 °C 10 min. to 50 °C	10 min. to 50 °C 12 min. to 50 °C	
Heating Power/Consumption		500 W × 4ea	650 W × 4ea	
Compressor		None	1/4 HP (× 4 Rooms)	
Timer & Alarm		99hr 59min (with delay / Continuous run.), Error status & Timer-end		
Display		Digital LCD with Back-Light Function		
Controller		Digital Fuzzy Controller with Jog-Shuttle Switch (Turn & Push)		
Inner Door		with 4ea of Inner Tempered Glass Door		
Shelves		Included 8ea of PE-coated steel Shelves (2ea × 4 Chambers)		
Permitted Total Load		Total Load 128 kg (16kg × 8 Shelves)		
Safety Circuit		Over Temp. and Over Current Protector, Sensor Error Detector		
Material		Internal : Stainless-steel (# 304), External : Powder Coated steel		
Dimension (w × d × h)	Interior (mm)	500 × 500 × h500 mm (× 4 Rooms)		
	Exterior (mm)	1,655 × 845 × h1,710 mm		
Net Weight		343kg	350kg	
Packing Size (w × d × h) (mm)		1,900 × 1,050 × 1,950		
Gross Weight		441 kg	450 kg	
Power Consumption		2.6 kW	4.5 kW	4.8 kW
Power Supply*		1 Phase, AC 120V, 60Hz or AC 230V, 50/60Hz	1 Phase AC 120V, 60Hz or AC 230V, 50/60Hz or 3 Phase	

* Other Specifications are available upon Customer's Request.

<Continued On Next Page>

<Continued From...DAIHAN-brand® Multi-Room Incubator “WIM”>

Ordering Information

(1) “WIM-4” with 125 Lit × 4 Rooms, Ambient +5°C ~ 70°C

DH.WIM04125 Multi-Room Incubator, 230V, “WIM-4”

(2) “WIM-R4” with 125 Lit × 4 Rooms, 0~70°C

DH.WIM14125 Multi-Room Incubator, 230V, “WIM-R4”

DH.WIM16125 , 3Phase, “WIM-R4”

(3) “WIM-RL4” with 125 Lit × 4 Rooms & Illumination, 0~70°C

DH.WIM24125 Multi-Room Incubator, 230V, “WIM-RL4”

DH.WIM26125 , 3Phase, “WIM-RL4”

Spare PE-coated Steel Wire Shelves

DH.WIM34125 Wire Shelf, PE-coated steel, with 2 Brackets, “IMS125”
w470 × d480mm, for “WIM” 4-Room Incubators

Optional Stainless-steel Wire Shelves

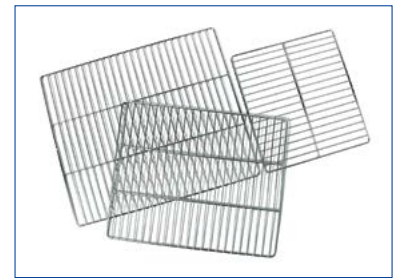
DH.WIM34126 Wire Shelf, Stainless-steel, with 2 Brackets, “IMS126”,
w470 × d480mm, for “WIM” 4-Room Incubators



Multi-Room Incubator, Forced Convection Type “WIM-R4”



Wire Shelves, PE-coated steel (Included)



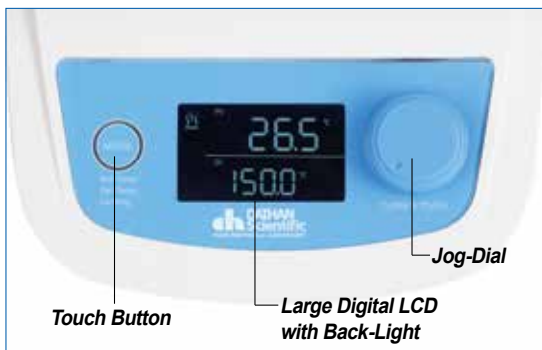
Wire Shelves, Stainless-steel (Optional)

DAIHAN-brand® **New-generation** Compact-size Heating Block/Dry Bath Incubator **“MaXtable™ H20”** with Large LCD display, Fuzzy Control, Molded Heater, Modular Anodized Aluminum Blocks, up to 150°C, ±0.1°C



Heating Block/Dry Bath “MaXtable™ H20-set”

- **Made in Korea** ■ **PL (Product Liability) Insurance**
- **with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System**
- **Designed for Multi-functional Dry Block Heater** ■ **Ergonomic Design**
- **Patented Jog-Dial and Main Touch Button - Best Durability, Best Mobility, Best Convenient to Operate. with Large Back-Light LCD**
- **With a Screw-type Block Removal Tool ; Convenient Handling**
- * High-performance Molded Heater ensures Best Temperature Accuracy.
- * Internal Bath Material(PPS) ensures Best Heat Insulation * Rapid heat up time.
- * Ideal for Enzyme Reactions, Inactivation of Sera, Incubation and Other Laboratory Procedures
- * Precise Temperature Control : ±0.1°C at 37°C, ±0.2°C at 90°C, ±0.4°C at 135°C
- * User Self-Compensation Function to offset between Actual and Displayed Temperature. (±10.0°C)
- * Digital Timer Included : up to 99hr 59min (Operation Time + Delay Time)
- * Storage Function of Temperature and Timer setting values
- * Convenient integral timer for time-sensitive incubations
- * Alarm Function : Error Status and Timer-end * Easy to Read, Wide LCD Screen
- * Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be Disabled)
- * Easily calibrated for accurate temperature control and display



New Generation Controller of “MaXtable™ H20”



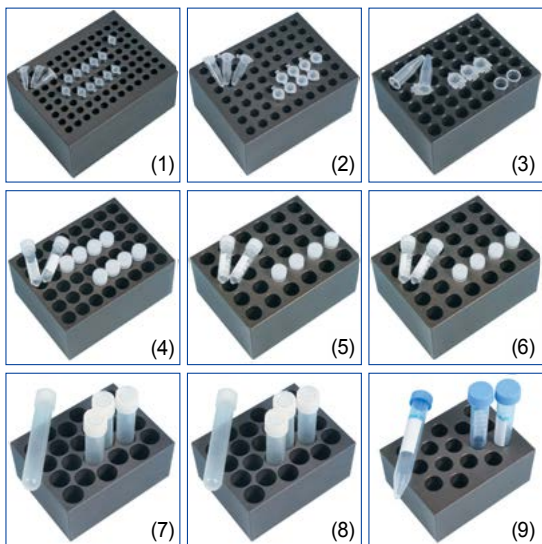
Included Block (3) “BLC 548” 48holes for 1.5/2ml & Removal Tool

Specifications & Ordering information

Spec.	Model	“MaXtable™ H20” (Only Unit)	“MaXtable™ H20-set” (included Standard Block)
Controller		Single Digital Fuzzy Controller	
Useful Block		Interchangeable Block(90×120×h60mm) for Various Tubes	
included Standard Block		None(Only Heating Block Unit)	48 holes×for 1.5/2ml Centri. Tube
Heater		Molded Heater(300W)	
Dimension(mm) & Weight(kg)		Unit : 178 × 226 × h138, Block : 90 × 120 × h60	
Temp. Range, & Accuracy		Ambient +5°C to 150°C, ±0.1°C at 37°C, ±0.2°C at 90°C, ±0.4°C at 135°C	
Heat-Up Speed & Sensor		Approx. 5°C/min, PT100	
Safety Circuit		Over Temp. and Over Current Protector, Sensor Error Detector	
Timer with Alarm		99hr 59min, Alarm (Error Status and Timer - end)	
Display		Digital LCD with Back-Light Function	
Material		Unit : PPS & BAS(HF380), Block : Anodized Aluminum	
Included Standard Acce.		Block Extraction Tool	
Packing Size & Gross Weight		230×290×h245 mm, 2.2 kg	230×355×h245 mm, 3.5 kg
Power Consumption		300 W	
Electric Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz	
Cat. No.	230V	DH.WHB02000	DH.WHB02100
Price, Each. ₩			

* Other Specifications are available upon Customer's Request.

Optional Interchangeable Anodized Aluminum Blocks (90×120×h60mm)



- DH.WHB510596 (1) for 0.2ml PCR Tube, (φ6×h16mm)×96 holes, “BLC596”
- DH.WHB510570 (2) for 0.5ml Centri. Tube, (φ7.7×h29.5mm)×63 holes, “BLC570”
- DH.WHB511548 (3) for 1.5/2ml Centri. Tube, (φ11×h35mm)×48 holes, “BLC548” (- included in the “H20-Set”)
- DH.WHB521248 (4) for φ12mm Test Tube, (φ12×h35mm)×48 holes, “BLT248”
- DH.WHB521335 (5) for φ13mm Test Tube, (φ13×h47mm)×30 holes, “BLT335”
- DH.WHB521535 (6) for φ15mm Test Tube, (φ15×h47mm)×30 holes, “BLT535”
- DH.WHB521628 (7) for φ16.5mm Test Tube, (φ16.5×h47mm)×24 holes, “BLT628”
- DH.WHB521828 (8) for φ18mm Test Tube, (φ18×h47mm)×24 holes, “BLT828”
- DH.WHB531515 (9) for 15ml Conical Tube, (φ16×h47mm)×15 holes, “BLC515”
- DH.WHB535008 (10) for 50ml Conical Tube, (φ28.7×h47mm)×8 holes, “BLC008”
- DH.WHB500102 (11) Spare ; Block Removal Tool, Easy Handling

DAIHAN-brand® High-performance Heating Block/Dry Bath Incubator “HB-96D”, Heating, Dual-type with Fuzzy Control, Molded Heater, Modular Anodized Aluminum Blocks, Acrylic Lid, Touch-button Controller, up to 150°C, ±0.1°C



Heating Block/Dry Bath, Dual Control System
“HB-96D-set”

- Made in Korea ■ CE Certified ■ PL (Product Liability) Insurance
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Designed for Multi-functional Dry Block Heater
- Dual Controller & Block
- Patented Jog-Shuttle Control System and Digital LCD with Back-Light Function
- * Ideal for Enzyme Reactions, Inactivation of Sera, Incubation and Other Laboratory Procedures
- * Precise Temperature Control : ±0.1°C at 37°C, ±0.2°C at 90°C, ±0.4°C at 135°C
- * User Self-Compensation Function to offset between Actual and Displayed Temperature. (±10.0°C)
- * Over Temperature & Over Current Protection and Sensor Error Detection
- * Digital Timer Included : up to 99hr 59min (Operation Time + Delay Time)
- * Storage Function of Temperature and Timer setting values * Modular Block
- * Alarm Function : Error Status and Timer-end * Various kind of Blocks are offered (Optional)
- * Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)
- * The Block Extraction Tongs and Included for Easy Handling

Specifications & Ordering information

Spec.	Model	“HB-96D” (Only Unit)	“HB-96D-set” (included Standard Block)
Controller		Dual Digital Fuzzy Controller	
Useful Block		Interchangeable Block(90×120×h60mm) for Various Tubes	
included Standard Block		None(Only Heating Block Unit)	2×48 holes×for 1.5/2ml Centri. Tube
Heater		Molded Heater(300W)×2ea	
Dimension(mm)		Unit : 285×250×h155, Block : (90×120×h60)×2ea	
Temp. Range, & Accuracy		Ambient +5°C to 150°C, ±0.1°C at 37°C, ±0.2°C at 90°C, ±0.4°C at 135°C	
Heat-Up Speed & Sensor		Approx. 5°C/min, PT100	
Safety Circuit		Over Temp. and Over Current Protector, Sensor Error Detector	
Timer with Alarm		99hr 59min, Alarm (Error Status and Timer - end)	
Display		Digital LCD with Back-Light Function	
Material		Unit : Stainless-steel (# 304) & Powder Coated steel, Block : Anodized Aluminum	
Included Standard Acce.		Block Tongs “BLE101” and Block Cover	
Packing Size & Gross Weight		400×270×h200 mm, 6 kg	
Power Consumption		600 W	
Electric Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz	
Cat. No.	230V	DH.WHB00198	DH.WHB00199

* Other Specifications are available upon Customer’s Request.



Included Anodized Aluminum Block & Tong

Optional Interchangeable Anodized Aluminum Blocks (90×120×h60mm)

			DH.WHB510596 (1) for 0.2ml PCR Tube, (φ6×h16mm)×96 holes, “BLC596”
			DH.WHB510570 (2) for 0.5ml Centri. Tube, (φ7.7×h29.5mm)×63 holes, “BLC570”
			DH.WHB511548 (3) for 1.5/2ml Centri. Tube, (φ11×h35mm)×48 holes, “BLC548” (* included in the “HB-96D-Set”)
			DH.WHB521248 (4) for φ 12mm Test Tube, (φ 12×h35mm)×48 holes, “BLT248”
			DH.WHB521335 (5) for φ 13mm Test Tube, (φ 13×h47mm)×30 holes, “BLT335”
			DH.WHB521535 (6) for φ 15mm Test Tube, (φ 15×h47mm)×30 holes, “BLT535”
			DH.WHB521628 (7) for φ 16.5mm Test Tube, (φ 16.5×h47mm)×24 holes, “BLT628”
			DH.WHB521828 (8) for φ 18mm Test Tube, (φ 18×h47mm)×24 holes, “BLT828”
			DH.WHB531515 (9) for 15ml Conical Tube, (φ 16×h47mm)×15 holes, “BLC515”
			DH.WHB535008 (10) for 50ml Conical Tube, (φ28.7×h47mm)×8 holes, “BLC008”
			DH.WHB500101 (11) Spare ; Block Extraction Tongs, “BLE101”

DAIHAN-brand® High-performance Heating Block/Dry Bath Incubator-Heating & Cooling “HB-R48” with Digital PID Control, Acrylic Lid, Precise Temperature Control, Modular Anodized Aluminum Block, -5°C ~95°C, ±0.1°C Peltier Cooling System, Digital Timer & PID Control System, Interchangeable Blocks.



“HB-R48-Set”

with Block “BLC548” for 1.5/2ml Centrifuge Tube × 48 holes



(3) “BLC548”



(11) “BLE101”

Included Anodized Aluminum Block & Tong

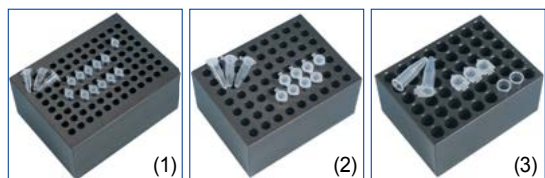
- Made in Korea ■ CE Certified ■ PL(Product Liability) Insurance
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Designed for Multi-Function : Enzyme Reactions, Inactivation of Sera, Incubation and Other Laboratory Procedures.
- Patented Jog-Shuttle Control System and Digital LCD with Back-Light Function
- * User Self-Compensation Function to offset between Actual and Displayed Temperature. (±10.0°C)
- * Storage Function of Temperature and Timer setting values
- * Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)

Specifications & Ordering information

Spec.	Model	“HB-R48” (Only Unit)	“HB-R48-set” (included Standard Block)
Controller		Digital Fuzzy Controller	
Useful Block		Interchangeable Block(90×120×h60mm) for Various Tubes	
included Standard Block		None(Only Heating Block Unit)	48 holes×for 1.5/2ml Centri. Tube
Dimension : Unit & Block		185×230×h220mm, and 90×120×h60mm	
Cooling		Two Peltier Modules	
Cool-Down Speed		2.3°C/min. between 95°C to 25°C, 0.5°C/min. between 25°C to -5°C	
Heater and Sensor		300W (Molded Heater), PT100	
Temp. Range, & Accuracy		-5°C to 95°C, and ±0.1°C at 37°C, ±0.2°C at 90°C	
Heat-Up Speed		Approx. 5°C/min	
Safety Device		Over Temp. and Over Current Protector, Sensor Error Detector	
Timer with Alarm		99hr 59min, Alarm (Error Status and Timer - end)	
Display		Digital LCD with Back-Light Function	
Material	Internal & External	Stainless steel (#304), and Powder Coated steel	
	Block	Anodized Aluminum	
Included Standard Acce.		Block Tongs “BLE101” and Block Cover	
Packing Size, Gross Weight		350×220×h310mm, 9 kg	
Power Consumption		450 W	
Electric Reqt.s.		1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz	
Cat. No.	230V	DH.WHB00248	DH.WHB00249

* Other Specifications are available upon Customer’s Request.

Optional Interchangeable Anodized Aluminum Blocks (90×120×h60mm)



(1)

(2)

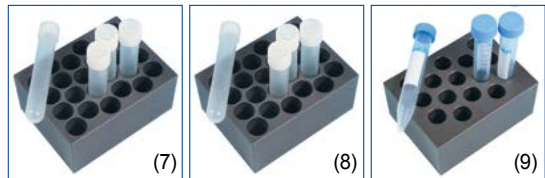
(3)



(4)

(5)

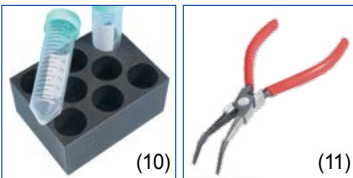
(6)



(7)

(8)

(9)



(10)

(11)

- DH.WHB510596 (1) for 0.2ml PCR Tube, (φ6×h16mm)×96 holes, “BLC596”
- DH.WHB510570 (2) for 0.5ml Centri. Tube, (φ7.7×h29.5mm)×63 holes, “BLC570”
- DH.WHB511548 (3) for 1.5/2ml Centri. Tube, (φ11×h35mm)×48 holes, “BLC548” (* included in the “HB-R48-Set”)
- DH.WHB521248 (4) for φ 12mm Test Tube, (φ 12×h35mm)×48 holes, “BLT248”
- DH.WHB521335 (5) for φ 13mm Test Tube, (φ 13×h47mm)×30 holes, “BLT335”
- DH.WHB521535 (6) for φ 15mm Test Tube, (φ 15×h47mm)×30 holes, “BLT535”
- DH.WHB521628 (7) for φ 16.5mm Test Tube, (φ 16.5×h47mm)×24 holes, “BLT628”
- DH.WHB521828 (8) for φ 18mm Test Tube, (φ 18×h47mm)×24 holes, “BLT828”
- DH.WHB531515 (9) for 15ml Conical Tube, (φ 16×h47mm)×15 holes, “BLC515”
- DH.WHB535008 (10) for 50ml Conical Tube, (φ28.7×h47mm)×8 holes, “BLC008”
- DH.WHB500101 (11) Spare ; Block Extraction Tongs, “BLE101”

DAIHAN-brand® Interchangeable Blocks, for Heating Block/Dry Bath, Anodized Aluminum, 90 × 120 × h60mm
Ideal for Various Tubes, Conical- or Round-Bottom Holes,



(1) "BLC596"

For 0.2ml PCR Tube,
($\phi 6 \times h16\text{mm}$) × 96 holes,
Conical Bottom Holes



(2) "BLC570"

For 0.5ml Centrifuge Tube.
($\phi 7.7 \times h29.5\text{mm}$) × 63 holes
Conical Bottom Holes



(3) "BLC548"

For 1.5/2ml Centrifuge Tube.
($\phi 11 \times h36\text{mm}$) × 48 holes,
Conical Bottom Holes
(Included in the Package-Set)



(4) "BLT248"

For $\phi 12\text{mm}$ Tube.
($\phi 12 \times h35\text{mm}$) × 48 holes,
Round Bottom Holes



(5) "BLT335"

For $\phi 13\text{mm}$ Tube.
($\phi 13 \times h47\text{mm}$) × 30 holes,
Round Bottom Holes



(6) "BLT535"

For $\phi 15\text{mm}$ Tube.
($\phi 15 \times h47\text{mm}$) × 30 holes,
Round Bottom Holes



(7) "BLT628"

For $\phi 16.5\text{mm}$ Tube.
($\phi 16.5 \times h47\text{mm}$) × 24 holes,
Round Bottom Holes



(8) "BLT828"

For $\phi 18\text{mm}$ Tube.
($\phi 18 \times h47\text{mm}$) × 24 holes,
Round Bottom Holes



(9) "BLC515"

For 15ml Conical Tube.
($\phi 16 \times h47\text{mm}$) × 15 holes,
Conical Bottom Holes



(10) "BLC008"

For 50ml Conical Tube.
($\phi 28.7 \times h47\text{mm}$) × 8 holes,
Conical Bottom Holes

Ordering Information

Optional Interchangeable Anodized Aluminum Blocks (90 × 120 × h60mm)

- DH.WHB510596 (1) Block, for 0.2ml PCR Tube, ($\phi 6 \times h16\text{mm}$) × 96 holes, "BLC596"
 DH.WHB510570 (2) Block, for 0.5ml Centrifuge Tube, ($\phi 7.7 \times h29.5\text{mm}$) × 63 holes, "BLC570"
 DH.WHB511548 (3) , for 1.5/2ml Centrifuge Tube, ($\phi 11 \times h35\text{mm}$) × 48 holes, "BLC548"
 DH.WHB521248 (4) Block, for $\phi 12\text{mm}$ Test Tube, ($\phi 12 \times h35\text{mm}$) × 48 holes, "BLT248"
 DH.WHB521335 (5) , for $\phi 13\text{mm}$ Test Tube, ($\phi 13 \times h47\text{mm}$) × 30 holes, "BLT335"
 DH.WHB521535 (6) , for $\phi 15\text{mm}$ Test Tube, ($\phi 15 \times h47\text{mm}$) × 30 holes, "BLT535"
 DH.WHB521628 (7) , for $\phi 16.5\text{mm}$ Test Tube, ($\phi 16.5 \times h47\text{mm}$) × 24 holes, "BLT628"
 DH.WHB521828 (8) , for $\phi 18\text{mm}$ Test Tube, ($\phi 18 \times h47\text{mm}$) × 24 holes, "BLT828"
 DH.WHB531515 (9) Block, for 15ml Conical Tube, ($\phi 16 \times h47\text{mm}$) × 15 holes, "BLC515"
 DH.WHB535008 (10) , for 50ml Conical Tube, ($\phi 28.7 \times h47\text{mm}$) × 8 holes, "BLC008"

DAIHAN-brand® General Purpose SMART Temp./Humidity Chamber “ThermoStable™ STH-E”, 155-/305-/420-/800-Lit with Smart-Lab™ System, Water Tank, Touch-Screen LCD, CFC-Free, -20°C ~ 80°C ±0.3°C, up to 95% RH,



SMART Temp./Humidity Chamber “ThermoStable™ STH-E”

- Made in Korea
- PL(Product Liability) Insurance
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Economical & Practical Type
- CFC Free Refrigerant (R-404A)
- Smart-Lab™ Controller : Controlled by Smart-Phone
 - Ergonomic 7” Full Touch Screen TFT LCD(Smart-Lab™ Controller)
 - WiRe™ App Service.
 - Self-Diagnostic Function
 - Push Alarm Service to Smart Phone : Power-/Temperature-/Door Open-Error Status
 - Built in USB port for Data Download and Program Upgrade
 - Password Protected Setting
 - Digital Calibration(Offset Function)
 - Door Ajar and Power Failure Alarm
 - Internet Connectivity with WiFi
 - Automatic Data Recording
 - Interactive Temperature Graph
 - Min-/Max-Temperature Memory
 - Program Function
- * Low Water Level Alarm Lamp
- * Temperature range from -20°C to 80°C, Relative Humidity from 30% to 95% RH
- * Inner Tempered Glass Door with Silicon Packing
- * RS232 Interface for Remote Monitoring and Controlling with PC (Standard)
- * Temperature & Humidity Recorder(6 Channels & 2Pens) and RS232C Communication Interface (Optional)
- * The Powerful and Silent Dual Fan Motor Assures Temperature Uniformity by Strong Air Circulation
- * Over Temperature and Over Current Protection for User Safety

Specifications & Ordering information

Spec.	Model	ThermoStable™ STH-E155	ThermoStable™ STH-E305	ThermoStable™ STH-E420	ThermoStable™ STH-E800
Capacity		155 Lit.	305 Lit.	420 Lit.	800 Lit.
Temp.	Range	-20°C ~ +80°C			
	Accuracy	±0.3°C (Stability ±1.0 °C)			
Humidity	Range	30% ~ 95% RH			
	Accuracy	±2% (Stability ±3% RH)			
Dimension (w×d×h)	Interior (mm)	505×505×610	620×620×800	750×660×850	1000×800×1000
	Exterior (mm)	745×920×1645	820×1290×1720	990×1075×1885	1200×1100×1920
Heater	for Temp.	1.5 kW	2.0 kW	2.2 kW	2.5 kW
	for Humi.	2.0 kW	3.0 kW	3.0 kW	3.0 kW
Compressor		7/8HP	1.5 HP	1.5 HP	3 HP
Refrigerant		CFC-Free(R-404A) Refrigeration System			
Controller & Display		Smart-Lab Controller, 7” Full Touch Screen TFT LCD			
Program Function		Multiple Programs(Patterns by multiple Segments) Supported			
Sensor		PT100 & Capacitive Sensor			
Material	Internal	Stainless-steel (# 304)			
	External	Powder Coated steel			
Shelves		3ea of Perforated Stainless steel Shelves of Adjustable Position			
Safety Device		Hi-Low Temp. Protector, Over Current & Leakage Breaker, Water Level Sensor			
Others		PL(Product Liability) Insurance			
Net Weight		290 kg	309 kg	378 kg	558 kg
Packing Dimension (w×d×h) (cm)		99×112×185	122×122×205	128×128×216	149×132×220
Gross Weight		355 kg	369 kg	478 kg	678 kg
Power Consumption		4.4 kW	5.7 kW	6.3 kW	8.2 kW
Electric Reqts.		1 Phase AC 120V, 60Hz or AC 230V, 50/60Hz or 3 Phase			
Cat. No.	230V	DH.STHE0155	DH.STHE0305	DH.STHE0420	DH.STHE0800
	3Phase	DH.STHE5155	DH.STHE5305	DH.STHE5420	DH.STHE5800

* Other Specifications are available upon Customer’s Request.

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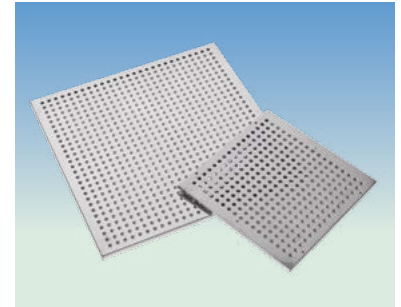
<Continued From... DAIHAN-brand® General Purpose SMART Temp./Humidity Chamber “ThermoStable™ STH-E”>

Spare Perforated Stainless-steel Shelves

DH.WTH11155 Perforated Shelf, Stainless-steel, “THS1155”, for 155 Lit, w470×d480mm
 DH.WTH11305 , “THS1305”, for 305 Lit, w590×d580mm
 DH.WTH11420 , “THS1420”, for 420 Lit, w720×d640mm
 DH.WTH11800 , “THS1800”, for 800 Lit, w970×d980mm

Optional Temp & Humidity Recorder and Chart Paper

DH.WTH05100 Temperature & Humidity Recorder, “WTH5100”
 DH.WTH05105 Chart Paper, “WTH5105”, 33 Days



Perforated Stainless-steel Shelves
(Included)



Temp. & Humidity Recorder
6 Channel 2 Pens (WTH5100)
(Optional)

» DAIHAN WiRe™ App Service



7" Full Touch Screen TFT LCD
(Smart-Lab™ Controller)

It is possible to monitor and control the Smart-Lab™ equipment through all smart phone, tablet without restraint of time and place.



WiRe™ App Service

Controlled by Smart-Phone

DAIHAN-brand® SMART Precise Temp./Humidity Chamber “ThermoStable™ STH”, 155-/305-/420-/800-Lit with Smart-Lab™, Auto Supplement Water Tank, Touch-Screen LCD, CFC-Free, -40°C/-20°C to 100°C, up to 98% RH



SMART Precise Temp. / Humidity Chamber
“ThermoStable™ STH-155”

- Made in Korea ■ PL(Product Liability) Insurance
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- CFC Free Refrigerant (R-404A)
- Smart-Lab™ Controller : Controlled by Smart-Phone
 - Ergonomic 7” Full Touch Screen TFT LCD(Smart-Lab™ Controller)
 - WiRe™ App Service. - Internet Connectivity with WiFi
 - Self-Diagnostic Function - Automatic Data Recording
 - Push Alarm Service to Smart Phone : Power-/Temperature-/Door Open-Error Status
 - Built in USB port for Data Download and Program Upgrade
 - Password Protected Setting - Interactive Temperature Graph
 - Digital Calibration(Offset Function) - Min-/Max-Temperature Memory
 - Door Ajar and Power Failure Alarm - Program Function
- * Precise Temperature Control (-40°C/-20°C to 100°C) and Humidity (30% to 98% Relative Humidity)
- * Electronic Humidity Sensor has Excellent Response Time and Durability.
- * CFC-Free Refrigerant (R-404A) * Low Water Level Alarm System
- * Easy and Safety Door Lock
- * The Powerful and Silent Dual Fan Motor Assures Temperature Uniformity by Strong Air Circulation (2 ~ 4pcs)
- * Large Clear Viewing Window with Membrane Heating Element (Moisture-Proof)
- * Sliding Water Supply Tank : Auto Water Supplementing System
- * Over Temperature & Over Current Protection, Sensor Error Detection and Leakage Breaking
- * RS232C Interface for Remote Monitoring and Controlling with PC (Standard)
- * 6 Channels & 2 Pens Temperature & Humidity Recorder(Optional)

Specification

Spec.		Model	ThermoStable™ STH-155	ThermoStable™ STH-305	ThermoStable™ STH-420	ThermoStable™ STH-800
Temp. Range		-20°C to 100°C				
Humidity Range		30% to 98% RH				
Compressor		7/8HP	1.5HP	1.5HP	3HP	
Heater	for Temp.	1.5 kW	2.0 kW	2.2 kW	2.5 kW	
	for Humi.	2.0 kW	3.0 kW	3.0 kW	3.0 kW	
Spec.		Model	ThermoStable™ STH-L155	ThermoStable™ STH-L305	ThermoStable™ STH-L420	ThermoStable™ STH-L800
Temp./Humidity Range		-40°C to 100°C / 30% to 98% RH				
Compressor		1.5HP	2 HP	3HP	4HP	
Heater	for Temp.	1.5 kW	2.0 kW	2.2 kW	2.5 kW	
	for Humi.	2.0 kW	3.0 kW	3.0 kW	3.0 kW	
Dimension (w×d×h)	Interior (mm)	505×505×610	620×620×800	700×700×820	1,000×800×1,000	
	Exterior (mm)	1,100×960×1,550	1,310×1,080×1,765	1,390×1,135×1,690	1,570×1,245×2,060	
Capacity		155 Lit.	305 Lit.	420 Lit.	800 Lit.	
Refrigerant		CFC-Free(R-404A) Refrigeration System				
Temp.	Accuracy	±0.3°C				
	Stability	±0.3°C				
Humidity	Accuracy	±0.3% RH				
	Stability	±0.3% RH at 70%				
Heat-up Time		35 min (-20°C to 80°C)				
Cool-down Time		45 min (+20°C to -20°C)				
Controller & Display		Smart-Lab Controller, 7” Full Touch Screen TFT LCD				
Program Function		Multiple Programs(Patterns by multiple Segments) Supported				
Sensor		PT100 & Capacitive Sensor				
Material	Internal	Stainless-steel (# 304)				
	External	Powder Coated steel				
Shelves		3ea of Perforated Stainless steel Shelves of Adjustable Position				
Safety Device		Over Temp. and Over Current Protector, Sensor Error and Low Level Detector, Leakage Breaker				
Others		PL(Product Liability) Insurance				
Packing Dimension (w×d×h) (cm)		134×116×175	152×125×207	160×130×202	178×141×237	
Gross Weight		353 kg	369 kg	478 kg	678 kg	
Power Consumption		4.7 kW	5.7 kW	6.3 kW	9 kW	
		6.2 kW	7.9 kW	9.9 kW	12.7 kW	
Electric Reqt.		1 Phase AC 120V, 60Hz or AC 230V, 50/60Hz or 3 Phase				

* Other Specifications are available upon Customer's Request.

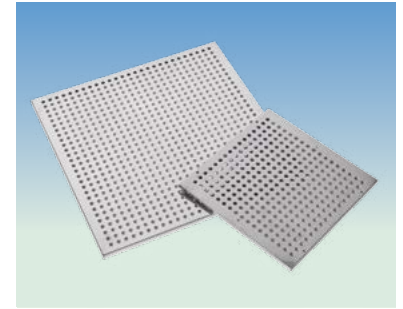
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<Continued From... DAIHAN-brand® SMART Precise Temp./Humidity Chamber, "ThermoStable™ STH">

Ordering Information

(1) Programmable Temp./Humidity Chamber, 1 Phase

DH.STH01155	Temp. / Humidity Chamber, "STH-155", -20°C to 100°C, 155 Lit, 230V
DH.STH01305	, "STH-305", -20°C to 100°C, 305 Lit, 230V
DH.STH01420	, "STH-420", -20°C to 100°C, 420 Lit, 230V
DH.STH01800	, "STH-800", -20°C to 100°C, 800 Lit, 230V
DH.STH02155	Temp. / Humidity Chamber, "STH-L155", -40°C to 100°C, 155Lit, 230V
DH.STH02305	, "STH-L305", -40°C to 100°C, 305Lit, 230V
DH.STH02420	, "STH-L420", -40°C to 100°C, 420Lit, 230V
DH.STH02800	, "STH-L800", -40°C to 100°C, 800Lit, 230V



Perforated Stainless-steel Shelves
(Included)

(2) Programmable Temp./Humidity Chamber, 3Phase, for Customizing

DH.STH07155	Temp. / Humidity Chamber, "STH-155", -20°C to 100°C, 155 Lit.
DH.STH07305	, "STH-305", -20°C to 100°C, 305 Lit.
DH.STH07420	, "STH-420", -20°C to 100°C, 420 Lit.
DH.STH07800	, "STH-800", -20°C to 100°C, 800 Lit.
DH.STH08155	Temp. / Humidity Chamber, "STH-L155", -40°C to 100°C, 155Lit.
DH.STH08305	, "STH-L305", -40°C to 100°C, 305Lit.
DH.STH08420	, "STH-L420", -40°C to 100°C, 420Lit.
DH.STH08800	, "STH-L800", -40°C to 100°C, 800Lit.



Auto Water Supplementing System

Spare Perforated Stainless-steel Shelves

DH.WTH11155	Perforated Shelf, Stainless-steel, "THS1155", for 155 Lit, w470 × d480mm
DH.WTH11305	, "THS1305", for 305 Lit, w590 × d580mm
DH.WTH11420	, "THS1420", for 420 Lit, w720 × d640mm
DH.WTH11800	, "THS1800", for 800 Lit, w970 × d980mm

Optional Temp & Humidity Recorder and Chart Paper

DH.WTH05100	Temperature & Humidity Recorder, "WTH5100"
DH.WTH05105	Chart Paper, "WTH5105", 33 Days



Temp. & Humidity Recorder
6 Channel 2 Pens(WTH5100)
(Optional)

» DAIHAN WiRe™ App Service



7" Full Touch Screen TFT LCD
(Smart-Lab™ Controller)



WiRe™ App Service

It is possible to monitor and control the Smart-Lab™ equipment through all smart phone, tablet without restraint of time and place.

Controlled by Smart-Phone

<Continued From... DAIHAN-brand® Low Temperature(B.O.D) Incubators "ThermoStable™ IR">

Spare PE-coated Steel Wire Shelves

- DH.WIR11150** Wire Shelf, PE Coated steel, "IRS150", w470 × d480mm,
for "IR-150", "IR-250"
- DH.WIR11420** Wire Shelf, PE Coated steel, "IRS420", w675 × d585mm, for "IR-420"
- DH.WIR11700** , "IRS700", w770 × d680mm, for "IR-700"

Optional Stainless-steel Wire Shelves

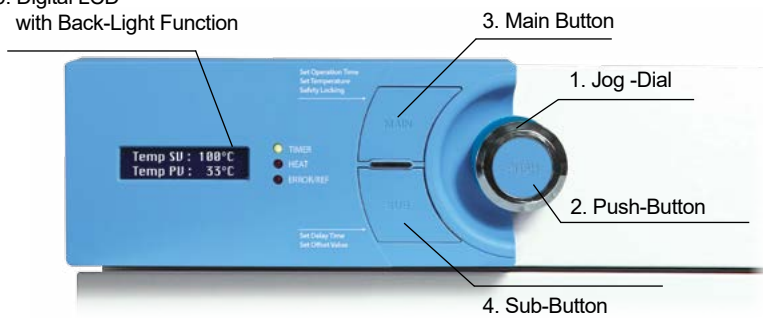
- DH.WIR21150** (1) Wire Shelf, Stainless-steel, "IRU150", w470 × d480mm,
for "IR-150", "IR-250"
- DH.WIR21420** (1) Wire Shelf, Stainless-steel, "IRU420", w675 × d585mm, for "IR-420"
- DH.WIR21700** , "IRU700", w770 × d680mm, for "IR-700"



Low Temperature(B.O.D) Incubator
"ThermoStable IR-150"

» New Jog-Dial Controller

5. Digital LCD
with Back-Light Function



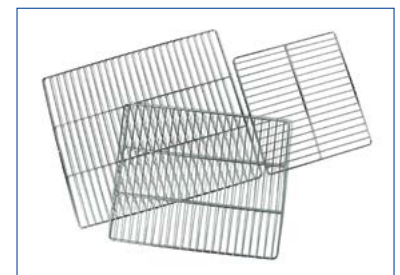
- Provides the user interface with an ergonomic design for users to operate in an easy and convenient way.
- A new 2-way Jog-Dial Knob (Jog Dial + Push Button) and presents excellent durability and mobility.
- High-quality LCD with Back-light function.
- A durable Main Button and a Sub Button that features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

 **Learn more!**
Watch the Video

<http://bit.ly/2XNupbj>



Wire Shelves, PE Coated steel
(Included)

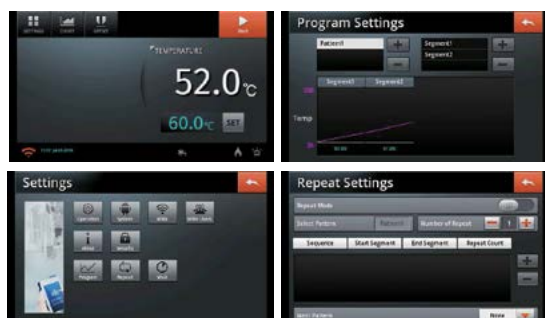


(1) Wire Shelves, Stainless-steel
(Optional)

DAIHAN-brand® SMART Low Temperature(B.O.D) Incubators “ThermoStable™ SIR”, 150-/250-/420-/700-Lit with Smart-Lab™ Controller, 4” Full Touch Screen, Fuzzy-PID Control, CFC-free(R-404A), 0~60℃, ±0.2℃, with Certi. & Traceability



SMART Low Temperature(B.O.D) Incubator
“ThermoStable™ SIR-150”



Display of Smart-Lab™ Controller

- Made in Korea
 - UL / CUL Certified
 - CE Certified
 - with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
 - Intelligent Control of Refrigerator for Preventing Overload of Compressor
 - CFC-free (R-404A) Refrigeration System
 - Digital Fuzzy Control System Implementing Superior Temperature Accuracy
 - Smart-Lab™ Controller
 - PL (Product Liability) Insurance
- * Variable Application : Animal & Plant Cell Culture, Constant Temperature, Germination Test, BOD Test, and so on
 - * Ergonomic Design 4” Full Touch Screen TFT LCD(Smart-Lab™ Controller)
 - * WiRe™ App Service.
 - * Automatic Data Recording
 - * Self-Diagnostic Function
 - * Compact New Body Design
 - * Variable Program Setting for Multiple Patterns with Multiple Segments
 - * The Recorded Data could be transferred to PC by USB memory
 - * Controller SW can be upgraded through USB port.
 - * Internet Connectivity with WiFi
 - * RS232C Interface for Monitoring and Controlling with PC
 - * Superior Temperature Uniformity by Forced Convection
 - * Stainless steel Chamber and PE-coated Shelves
 - * Over Temperature & Over Current Protection, Sensor Error Detection and Leakage Breaking.
 - * CFC-free (R-404A) Refrigeration System.

Specifications & Ordering information

Spec.	Model	ThermoStable™ SIR-150	ThermoStable™ SIR-250	ThermoStable™ SIR-420	ThermoStable™ SIR-700
Capacity		150 Lit.	250 Lit.	420 Lit.	700 Lit.
Air Flow-type		Forced-air Type			
Temp. Range & Accuracy		0℃ ~ 60℃, ± 0.2℃ at 37℃			
Temp. Uniformity & Sensor		± 0.5℃ at 37℃, ± 1.4℃ at 50℃, PT100 Sensor			
Heat-up Time		20 min. to 37℃ 20 min. to 50℃		35 min. to 37℃ 35 min. to 50℃	
Recovery Time (Door open 30sec)		10 min. to 37℃ 12 min. to 50℃		12 min. to 37℃ 15 min. to 50℃	
Heating Power/Consumption		700 W	1 kW	1.2 kW	2 kW
Compressor		1/4HP	1/3HP	1/2HP	1/2HP
Compressor Control		Intelligent Control of Refrigerator for preventing Overload of Compressor			
Refrigerant		CFC-Free(R-404A) Refrigeration System			
Timer & Alarm		99hr 59min (with delay / Continuous run.), Error status & Timer-end			
Display		4”Full Touch Screen TFT LCD			
Controller		Smart-Lab™ Controller			
Inner Door		with 1ea of Inner Tempered Glass Door			
Shelves		Included 3ea of PE-coated steel Shelves			
Permitted		Total Load Total Load : 48 kg (16kg×3 Shelves)			
Safety Circuit		Over Temp. and Over Current Protector, Sensor Error Detector			
Material		Internal : Stainless-steel (# 304), External : Powder Coated steel			
Dimension (w×d×h)	Interior (mm)	505×505×610	505×505×1,000	705×605×1,000	800×700×1,250
	Exterior (mm)	640×832×1,313	640×832×1,703	840×932×1,753	935×1,027×2,000
Net Weight		118 kg	157 kg	202 kg	234 kg
Packing Size (w×d×h) (mm) & Gross Weight		900×1,000×1,650	900×1,000×2,040	1,100×1,100×2,140	1,220×1,220×2,260
		191 kg	217 kg	277 kg	313 kg
Power Consumption		1.6 kW	1.8 kW	2.3 kW	2.4 kW
Electric Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz			
Cat. No.	230V	DH.SWIR03150	DH.SWIR03250	DH.SWIR03420	DH.SWIR03700

* Other Specifications are available upon Customer's Request.

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<Continued From... DAIHAN-brand® SMART Low Temperature(B.O.D) Incubators “ThermoStable™ SIR” >

Spare PE-coated Steel Wire Shelves

DH.WIR11150 Wire Shelf, PE Coated steel, “**IRS150**”, w470×d480mm,
for “**SIR-150**”, “**SIR-250**”

DH.WIR11420 Wire Shelf, PE Coated steel, “**IRS420**”, w675×d585mm, for “**SIR-420**”
DH.WIR11700 , “**IRS700**”, w770×d680mm, for “**SIR-700**”

Optional Stainless-steel Wire Shelves

DH.WIR21150 (1) Wire Shelf, Stainless-steel, “**IRU150**”, w470×d480mm,
for “**SIR-150**”, “**SIR-250**”

DH.WIR21420 (1) Wire Shelf, Stainless-steel, “**IRU420**”, w675×d585mm, for “**SIR-420**”
DH.WIR21700 , “**IRU700**”, w770×d680mm, for “**SIR-700**”



SMART Low Temperature(B.O.D) Incubator
“ThermoStable SIR-150”

» DAIHAN WiRe™ App Service



4" Full Touch Screen TFT LCD
(Smart-Lab™ Controller)

It is possible to monitor and control the Smart-Lab™ equipment through all smart phone, tablet without restraint of time and place.

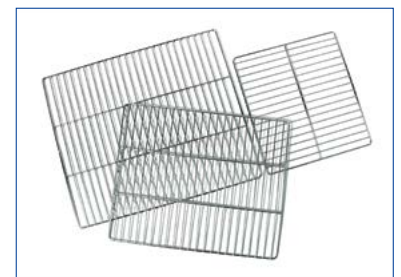


WiRe™ App Service

Controlled by Smart-Phone



Wire Shelves, PE Coated steel
(Included)



(1) Wire Shelves, Stainless-steel
(Optional)

DAIHAN-brand® SMART Plant Growth Chamber “ThermoStable™ GC”, Smart-Lab™ System, 432-/864-Lit. with Smart-Lab™ Controller, CFC-Free, 0~12,000- or 15,000-Lux, 30~95% RH, 10~60°C, with Certi. & Traceability



(1) SMART Plant Growth Chamber “ThermoStable™ GC-450”

- Made in Korea
- CE Certified
- PL(Product Liability) Insurance
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Suitable for Plant Growth, Stability, Product Self-life QC Testing
- Ergonomic Screen Design 7" Full Touch Screen TFT LCD (Smart-Lab™ Controller) : Controlled by Smart-Phone
- WiRe™ App Service.
- Automatic Data Recording
- Self-Diagnostic Function
- Variable Program Setting for Multiple Patterns with Multiple Segments
- The Recorded Data could be transferred to PC by USB memory
- Controller SW can be upgraded through USB port.
- * Inner Tempered Glass Door with Silicone Packing offers easy Observation without Door Opening
- * Humidity Control by Capacitive Humidity Sensor provides Accurate Control from 30 to 95%RH
- * Smart-Lab™ Controller Provides Precise Temperature, Relative Humidity and Illumination Control
 - Maintain Uniformity and Accuracy of Growth Circumstance
- * 3-/4- Side Light Bank System : Intensity of Light is controlled by 8-levels and Displayed on LCD
- * Over Temperature & Over Current Protection, Sensor Error Detection, Leakage Breaking

Specification

Spec.	Model	(1) “ThermoStable™ GC-450”	(2) “ThermoStable™ GC-1000”
Capacity		432 Lit.	864 Lit.
Temp.	Range & Variation	10°C ~ 60°C, ±1°C at 20°C	
	Fluctuation	± 0.5°C at 10°C, ± 0.5°C at 25°C (0% light intensity) ± 1°C at 10°C, ± 1°C at 25°C (100% light intensity)	
Humidity	Range & Variation	30% ~ 95% RH, ±3% at 60°C	
	Fluctuation	± 1%	
	Humidifier	Evaporation by Fan with Heater	
Illumination	Range	0 to 12,000 Lux	0 to 15,000 Lux
	Lamp	FPL 55W × 14	FPL 55W × 28
	Bank	3 Side Walls	
Temp. & Humidity Sensor		Temp. : PT100, Humidity : Capacitive Sensor	
Heat-up Time (up to 37°C)		11 min. (0 % illumination) / 9 min. (100 % illumination)	
Cool-down Time (down to 10°C)		13 min. (0 % illumination) / 15 min. (100 % illumination)	
Temp. Recovery (After Door was opened for 30sec)		3 min. at 10°C, 1 min. at 37°C (0 % illumination) 5 min. at 10°C, 1min. at 37°C (100 % illumination)	
Heating Power /Consumption	for Temp.	1.5 kW	3.0 kW
	for Humi.	1.5 kW	3.0 kW
Compressor		1/2HP	1HP
Refrigerant		CFC-Free(R-404A) Refrigeration System	
Display		7"Full Touch Screen TFT LCD (Smart-Lab™ Controller)	
Controller		Smart-Lab™ Controller	
Program Function		Temperature and Humidity : 120 Patterns, 1,200 Segments Light Bank : 7 steps	
Door	Internal	Tempered Safety Glass with Silicon Packing	
	External	3-Side Magnetic Packing Door with Light Bank	
Shelves		4 × PE-coated Steel Shelves	8 × PE-coated Steel Shelves
Permitted Total Load		64 kg (16kg × 4 Shelves)	128 kg (16kg × 8 Shelves)
Safety Circuit		Over Temp Protector, Over Current & Leakage Breaker	
Material		Internal : Stainless-steel (# 304), External : Power Coated steel	
Dimension (w × d × h)	Interior (mm)	650 × 700 × 1,050	1,200 × 790 × 1,050
	Exterior (mm)	850 × 1,090 × 1,965	1,400 × 1,150 × 1,965
Packing Size & Gross Weight		1,400 × 1,220 × h2,210mm, 435 kg	1,600 × 1,500 × h2,200mm, 585 kg
Power Consumption		4.8 kW	6.5 kW
Power Supply*		1 Phase AC 120V, 60Hz or AC 230V, 50/60Hz or 3 Phase	

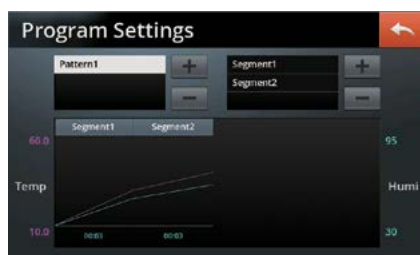
* Other Specifications are available upon Customer's Request.



Main Display of Smart-Lab™ Controller



Graph Display of Smart-Lab™ Controller



Program Set Display of Smart-Lab™ Controller

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<Continued From...DAIHAN-brand® SMART Plant Growth Chamber “ThermoStable™ GC”>

Ordering Information

(1) 432 Lit Plant Growth Chamber “ThermoStable™ GC-450”, 0~12,000 Lux

DH.SWGC00450* Plant Growth Chamber, 230V, “ThermoStable GC-450”
 DH.SWGC50450* , 120V, “ThermoStable GC-450”
 DH.SWGC60450* , 3 Phase, “ThermoStable GC-450”

(2) 864 Lit Plant Growth Chamber “ThermoStable™ GC-1000”, 0~15,000 Lux

DH.SWGC01000* Plant Growth Chamber, 230V, “ThermoStable GC-1000”
 DH.SWGC61000* , 3 Phase, “ThermoStable GC-1000”

*-marks : Included Water Tank(with Silicon Tube) and Lux Meter

Spare Wire Shelves, PE Coated steel

DH.WGC10450 Wire Shelf, PE Coated, w640×d620mm, “GCS450”, for 432Lit.
 DH.WGC11000 , w580×d620mm, “GCS1000”, for 864Lit.



(1) SMART Plant Growth Chamber
 “ThermoStable™ GC-450”

» DAIHAN WiRe™ App Service



7" Full Touch Screen TFT LCD
 (Smart-Lab™ Controller)

It is possible to monitor and control the Smart-Lab™ equipment through all smart phone, tablet without restraint of time and place.



WiRe™ App Service

Controlled by Smart-Phone



Wire Shelves, PE-coated steel
 (Included)



Water Tank/Silicon Tube/Lux Meter
 (Included)

DAIHAN-brand® Precise Shaking Incubators “ThermoStable™ IS-30”, Front Door-type, up to 60°C, ±0.2°C with Universal Platform, Fuzzy Control, Orbital Motion, Advanced Shaking Mechanism, Precise Speed Control, 30~250 rpm Universal Platform



(a) Room Temp. +5°C~ +60°C, with Universal Platform “ThermoStable™ IS-30”



(b) +10°C~ +60°C, with Universal Platform “ThermoStable™ IS-30R”

- Made in Korea ■ CE Certified ■ PL (Product Liability) Insurance
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Useful for Biological Cultures under various Temperature
- Patented Jog-Shuttle Control System

- * Useful for Biological Cultures under various Temperature
- * Precise Temperature Control by Digital Fuzzy Controller, up to 60°C
- * Digital Timer Function : 99 hours 59 minutes
- * Front Door and Sliding Platform Provides Easy Loading and Handling of Samples
- * Digital LCD with Back-Light Function
- * Stabilized Orbital Motion
- * RS232C Interface for Monitoring and Controlling with PC.
- * Advanced Shaking Mechanism Provides Quiet Shaking and Precise Speed Control
- * Minimum Noise and No Vibration.
- * Accommodate Flasks up to 1,000ml
- * Universal Spring Rack for Various Shapes/Size of Flasks (Optional)
- * Automatic Stop of Shaking, Heating and Refrigeration when a Door opens
- * Over Temperature & Over Current Protection and Leakage Breaking.

Specifications & Ordering information

Spec.	Model	(a) “ThermoStable™ IS-30”	(b) “ThermoStable™ IS-30R”
Temp. Range		Room Temp. +5°C ~ 60°C	10°C ~ 60°C
Temp. Accuracy & Uniformity		Accuracy : ±0.2°C at 37°C, Uniformity : ±0.5°C at 37°C	
Capacity		127Lit.	
Temp. Sensor		PT100 Sensor	
Heater		600 W	800 W
Compressor		None	1/4 HP
Compressor Control		None	Intelligent Control of Refrigerator for preventing Overload of Compressor
Refrigerant		None	CFC-Free(404A) Refrigeration System
Shaking Speed & Stroke		30 ~ 250 rpm, 25mm Orbital Motion	
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back-Light Function	
Controller		Digital Fuzzy Controller with Jog-Shuttle Switch (Turn+Push)	
Platform		Included Universal Platform for Various Shapes & Sizes of Flasks	
Optional Flask Holder		Durable & Flexible Plastic Flask Holder (up to 1000ml)	
Available Max. Capacity of Flask Holder	for 50~100ml	Available 35 ea Flask Holder, for 50~100ml Flask	
	for 200~300ml	Available 16 ea Flask Holder, for 200~300ml Flask	
	for 500~1,000ml	Available 12 ea Flask Holder, for 500~1,000ml Flask	
Safety Circuit		Over Temp./ Current Protector, Leakage Breaker	
Material		Internal : Stainless-steel (# 304), External : Powder Coated steel	
Dimension		Internal : 570 × 465 × h470mm, External : 916 × 730 × h683mm	
Packing Size (w × d × h) (mm) & Gross Weight		1,050 × 900 × h900mm	
		146 kg	156 kg
Power Consumption		600 W	1.3 kW
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	

Cat. No.	60Hz	230V	DH.WIS00230	DH.WIS01230

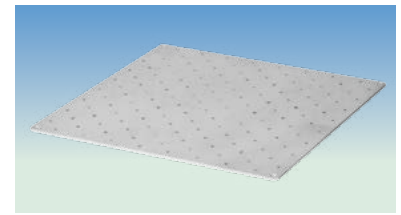
* Other Specifications are available upon Customer's Request.

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<Continued From...DAIHAN-brand® Precise Shaking Incubators “ThermoStable™ IS-30”>

Optional Platform/Spring Rack/Flask Holders

- DH.WIS504630** (1) Universal Platform, w485 × h405mm, “**SP630**”, for “**IS-30(R)**”
- DH.WIS504530** (2) Universal Spring Rack w498 × d408 × h135mm, “**SR530**”, for “**IS-30(R)**”
- DH.WIS504030** (3) ABS Flask Holder, for 50~100ml Flask, “**FH100**”, for “**SHO**”, “**SHR**” and “**IS**”
- DH.WIS504035** (4) ABS Flask Holder, for 200~300ml Flask, “**FH250**”, for “**SHO**”, “**SHR**” and “**IS**”
- DH.WIS504040** (5) ABS Flask Holder, for 500~1000ml Flask, “**FH500**”, for “**SHO**”, “**SHR**” and “**IS**”
- DH.WIS600100** (6) STS Wire Spring Flask Holder, for 100ml Flask, “**FHS100**”, for “**SHO**”, “**SHR**” and “**IS**”
- DH.WIS600250** (7) STS Wire Spring Flask Holder, for 250ml Flask, “**FHS250**”, for “**SHO**”, “**SHR**” and “**IS**”
- DH.WIS600500** (8) STS Wire Spring Flask Holder, for 500ml Flask, “**FHS500**”, for “**SHO**”, “**SHR**” and “**IS**”
- DH.WIS601000** (9) STS Wire Spring Flask Holder, for 1000ml Flask, “**FHS1000**”, for “**SHO**”, “**SHR**” and “**IS**”



(1) Universal Platform “SP630” (Included)



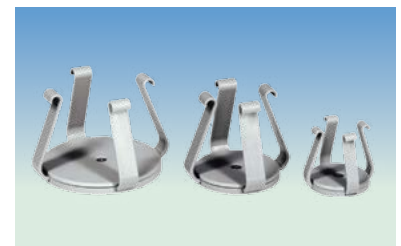
(2) Universal Spring Rack “SR530” (Optional)



WiseRemote Control Software :

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

* You can Download this Software at DAIHAN-Sci.com Shopping-mall



ABS Flask Holders (Optional)



STS Wire Spring Flask Holder (Optional)

DAIHAN-brand® Precise Shaking Incubators “ThermoStable™ IS-20”, BenchTop-type, up to 60°C, ±0.2°C with Universal Platform, Fuzzy Control, Orbital Motion, Advanced Shaking Mechanism, Precise Speed Control, 30~250 rpm Universal Platform



(a) Room Temp. +5°C~+60°C, with Universal Platform “ThermoStable™ IS-20”



(b) +10°C~+60°C, with Universal Platform “ThermoStable™ IS-20R”

- Made in Korea ■ CE Certified ■ PL(Product Liability) Insurance
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Useful for Biological Cultures under various Temperature
- Patented Jog-Shuttle Control System

- * Useful for Biological Cultures under various Temperature
- * Precise Temperature Control by Digital Fuzzy Controller, up to 60°C
- * Digital Timer Function : 99 hours 59 minutes
- * Minimum Noise and No Vibration
- * Digital LCD with Back-Light Function
- * Advanced Shaking Mechanism Provides Quiet Shaking and Precise Speed Control
- * Automatic Stop of Shaking, Heating and Refrigeration when a Door opens
- * Over Temperature & Over Current Protection, Sensor Error Detection and Leakage Breaking
- * Accommodate Flasks up to 1,000ml
- * Stabilized Orbital Motion
- * RS232C Interface for Monitoring and Controlling with PC
- * Universal Spring Rack for Various Shapes/Sizes of Flasks (Optional)

Specifications & Ordering information

Spec.	Model	(a) “ThermoStable™ IS-20”	(b) “ThermoStable™ IS-20R”	
Temp. Range		Room Temp. +5°C ~ 60°C	10°C ~ 60°C	
Temp. Accuracy & Uniformity		Accuracy : ±0.2°C at 37°C, Uniformity : ±0.5°C at 37°C		
Capacity		101Lit.		
Temp. Sensor		PT100 Sensor		
Heater		500 W	700 W	
Compressor		None	1/4 HP	
Compressor Control		None	Intelligent Control of Refrigerator for preventing Overload of Compressor	
Refrigerant		None	CFC-Free(404A) Refrigeration System	
Shaking Speed & Stroke		30 ~ 250 rpm, 25mm Orbital Motion		
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end		
Display		Digital LCD with Back-Light Function		
Controller		Digital Fuzzy Controller with Jog-Shuttle Switch (Turn+Push)		
Room Lamp		60W Krypton Lamp		
Platform		Included Universal Platform for Various Shapes & Sizes of Flasks		
Optional Flask Holder		Durable & Flexible Plastic Flask Holder (up to 1000ml)		
Available Max. Capacity of Flask Holder	for 50~100ml	Available 32 ea Flask Holder, for 50~100ml Flask		
	for 200~300ml	Available 20 ea Flask Holder, for 200~300ml Flask		
	for 500~1,000ml	Available 16 ea Flask Holder, for 500~1,000ml Flask		
Safety Circuit		Over Temp./ Current Protector, Leakage Breaker, Sensor Error Detector		
Material		Internal : Stainless-steel (# 304), External : Powder Coated steel		
Dimension		Internal : 530×530×h350mm, External : 575×855×h850mm		
Packing Size (w×d×h) (mm) & Gross Weight		1,000×800×h1,100mm		
		147 kg	150 kg	
Power Consumption		500 W	1.2 kW	
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz		
Cat. No.	60Hz	230V	DH.WIS00220	DH.WIS01220

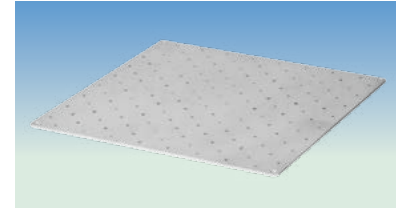
* Other Specifications are available upon Customer's Request.

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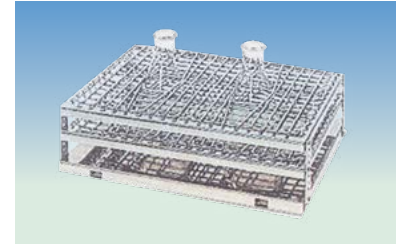
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Optional Platform/Spring Rack/Flask Holders

- DH.WIS504600** (1) Universal Platform, w478×h478mm, “**SP600**”, for “**IS-20(R)**”
- DH.WIS504500** (2) Universal Spring Rack w483×d483×h135mm, “**SR500**”, for “**IS-20(R)**”
- DH.WIS504030** (3) ABS Flask Holder, for 50~100ml Flask, “**FH100**”, for “**SHO**”, “**SHR**” and “**IS**”
- DH.WIS504035** (4) ABS Flask Holder, for 200~300ml Flask, “**FH250**”, for “**SHO**”, “**SHR**” and “**IS**”
- DH.WIS504040** (5) ABS Flask Holder, for 500~1000ml Flask, “**FH500**”, for “**SHO**”, “**SHR**” and “**IS**”
- DH.WIS600100** (6) STS Wire Spring Flask Holder, for 100ml Flask, “**FHS100**”, for “**SHO**”, “**SHR**” and “**IS**”
- DH.WIS600250** (7) STS Wire Spring Flask Holder, for 250ml Flask, “**FHS250**”, for “**SHO**”, “**SHR**” and “**IS**”
- DH.WIS600500** (8) STS Wire Spring Flask Holder, for 500ml Flask, “**FHS500**”, for “**SHO**”, “**SHR**” and “**IS**”
- DH.WIS601000** (9) STS Wire Spring Flask Holder, for 1000ml Flask, “**FHS1000**”, for “**SHO**”, “**SHR**” and “**IS**”



(1) Universal Platform “SP600” (Included)



(2) Universal Spring Rack “SR500” (Optional)



ABS Flask Holders (Optional)



STS Wire Spring Flask Holder (Optional)



WiseRemote Control Software :

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

* You can Download this Software at DAIHAN-Sci.com Shopping-mall

DAIHAN-brand® Precise Shaking Incubators “ThermoStable™ IS-10”, Top Door-type, Orbital Motion with Universal Platform, Fuzzy Control, with or without illuminators & Recorder, up to 60°C, ±0.2°C, 30~250 rpm
 Universal Platform with Certi. & Traceability



(a) Room Temp. +5°C~60°C, With Universal Platform “ThermoStable™ IS-10”



(b) 10°C~60°C, With Universal Platform “ThermoStable™ IS-10R”

- Made in Korea ■ CE Certified ■ PL (Product Liability) Insurance
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Useful for Biological Cultures under various Temperature
- Patented Jog-Shuttle Control System

- * Precise Temperature Control by Digital Fuzzy Controller, up to 60°C
- * Digital LCD with Back-Light Function
- * Minimum Noise and No Vibration
- * Advanced Shaking Mechanism Provides Quiet Shaking and Precise Speed Control
- * Automatic Stop of Shaking, Heating and Refrigeration when a Door opens
- * Universal Spring Rack for Various Shapes/Sizes of Flasks (Optional)
- * RS232C Interface for Monitoring and Controlling with PC

Specifications & Ordering information

Spec.	Model	(a) ThermoStable™ IS-10	(b) ThermoStable™ IS-10R	(c) ThermoStable™ IS-10RL
Illumination System		None		FPL 55W×4ea
Temp. Range		R/T +5°C ~ 60°C	10°C ~ 60°C	
Temp. Accuracy & Uniformity		Accuracy : ±0.2°C at 37°C, Uniformity : ±0.5°C at 37°C		
Capacity		229Lit.		
Temp. Sensor		PT100 Sensor		
Heater		800 W	1 kW	1.2 kW
Compressor		None	1/3HP	
Compressor Control		None	Intelligent Control of Refrigerator for preventing Overload of Compressor	
Refrigerant		CFC-Free (404A) Refrigeration System		
Shaking Speed & Stroke		30 ~ 250 rpm, 25mm Orbital Motion		
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end		
Display		Digital LCD with Back-Light Function		
Controller		Digital Fuzzy Controller with Jog-Shuttle Switch (Turn+Push)		
Room Lamp		Krypton Lamp, 60W	None	
Platform		Included Universal Platform for Various Shapes & Sizes of Flasks		
Optional Flask Holder		Durable & Flexible Plastic Flask Holder (up to 1000ml)		
Available Max. Capacity of Flask Holder	for 50~100ml	Available 68 ea Flask Holder, for 50~100ml Flask		
	for 200~300ml	Available 36 ea Flask Holder, for 200~300ml Flask		
	for 500~1,000ml	Available 21 ea Flask Holder, for 500~1,000ml Flask		
Safety Circuit		Over Temp./ Current Protector, Leakage Breaker, Sensor Error Detector		
Material		Internal : Stainless-steel (# 304), External : Powder Coated steel		
Dimension		Internal : 750×720×h400mm, External : 1,065×900×h980mm		
Packing Size (w×d×h) (mm) & Gross Weight		1,220×1,060×h1,200mm		
		231 kg	238 kg	238 kg
Power Consumption		800 W	1.8 kW	2.1 kW
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz		

Cat. No.	60Hz	230V	DH.WIS00210	DH.WIS04210	DH.WIS05210

* Other Specifications are available upon Customer's Request.

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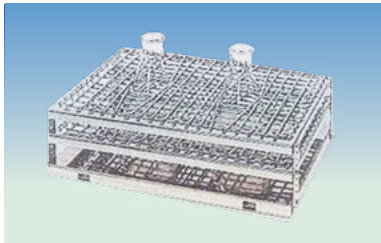
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Optional Platform/Spring Rack/Flask Holders/Recorders

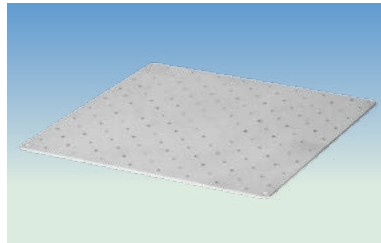
- DH.WIS504510** (1) Universal Spring Rack, w693 × d653 × h135mm, “**SR510**”, for “**IS-10(R/RL)**”
- DH.WIS504610** (2) Universal Platform, w688 × h648mm, “**SP610**”, for “**IS-10(R/RL)**”
- DH.WIS504030** (3) ABS Flask Holder, for 50~100ml Flask, “**FH100**”, for “**SHO**”, “**SHR**” and “**IS**”
- DH.WIS504035** (4) ABS Flask Holder, for 200~300ml Flask, “**FH250**”, for “**SHO**”, “**SHR**” and “**IS**”
- DH.WIS504040** (5) ABS Flask Holder, for 500~1000ml Flask, “**FH500**”, for “**SHO**”, “**SHR**” and “**IS**”
- DH.WIS600100** (6) STS Wire Spring Flask Holder, for 100ml Flask, “**FHS100**”, for “**SHO**”, “**SHR**” and “**IS**”
- DH.WIS600250** (7) STS Wire Spring Flask Holder, for 250ml Flask, “**FHS250**”, for “**SHO**”, “**SHR**” and “**IS**”
- DH.WIS600500** (8) STS Wire Spring Flask Holder, for 500ml Flask, “**FHS500**”, for “**SHO**”, “**SHR**” and “**IS**”
- DH.WIS601000** (9) STS Wire Spring Flask Holder, for 1000ml Flask, “**FHS1000**”, for “**SHO**”, “**SHR**” and “**IS**”
- DH.WTH05100** (10) Temperature Recorder, with 6ea Ribbon Cassette & Chart Paper LED, 6ch/10sec, 144 × 144 × h233mm, “**WTH5105**”
- DH.WTH05108** Ribbon Cassette, 6 Colors, “**WTH5108**”
- DH.WTH05105** Chart Paper, w100mm × L10m, 33 Days, “**WTH5105**”



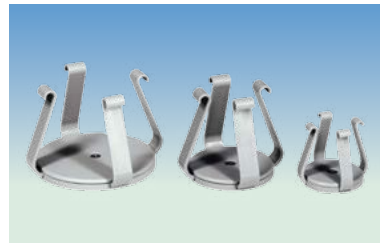
(c) 10 °C~60 °C, with Universal Platform & Illumination System “ThermoStable IS-10RL”



(1) Universal Spring Rack “SR510” (Optional)



(2) Universal Platform “SP610” (Included)



ABS Flask Holders (Optional)



STS Wire Spring Flask Holder (Optional)



(10) Temperature Recorder : with 6ea Ribbon Cassette and Chart Paper



WiseRemote Control Software :

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

* You can Download this Software at DAIHAN-Sci.com Shopping-mall

DAIHAN-brand® Multi-Stack Refrigerated Shaking Incubator “WIS-ML”, Orbital Motion, with 2-/4-Universal Platform with Universal Platform, Digital Fuzzy Control, 2 or 4 Independent Shaking Speed Control, 10~60°C, 30~250 rpm, 2-/4- Stacks 2-/4-Universal Platform



Multi-Stack Refrigerated Shaking Incubator with 4 × Universal Platform “WIS-ML04”

- Made in Korea ■ CE Certified ■ PL (Product Liability) Insurance
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Excellent for Multi-use and wide range of Sample Testing under various Temperature
- Patented Jog-Shuttle Control System

- * Digital Fuzzy Control System Implementing Superior Temperature Accuracy
- * Intelligent Control of Refrigerator for Preventing Overload of Compressor
- * High-Quality LCD with Back-Light Function Used
- * 10~60°C Range, Accuracy of ±0.1°C
- * Advanced Shaking Mechanism provides Quiet Shaking and Precise Speed Control
- * Space Saving Design for Large Quantity Samples with 2 or 4 Independent Shaking Speed Controller
- * Automatic Stop of Shaking, Heating and Refrigeration when the Door is Opened
- * RS232C Interface for Monitoring and Controlling with PC
- * Over Temperature & Over Current Protection and Sensor Error Detection
- * Including Universal Platform for Various Shapes and Sizes of Flasks
- * Universal Spring Rack for Various Shapes/Sizes of Flasks (Optional)

Specifications & Ordering information

Spec.	Model	(a) “WIS-ML02”	(b) “WIS-ML04”
Shaking Stacks		2 Stacks	4 Stacks
Temp. Range & Accuracy		10°C~ 60°C, ±0.2°C at 37°C	
Temp. Uniformity & Sensor		±1.0°C at 37°C, PT100 Sensor	
Heater		1.5 kW	1.8 kW
Compressor		1/2HP	3/4HP
Compressor Control		Intelligent Control of Refrigerator for Preventing Overload of Compressor	
Refrigerant		CFC-Free(404A) Refrigeration System	
Shaking Speed & Stroke		30 ~ 250 rpm, 25mm Orbital Motion	
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back-Light Function	
Controller		Digital Fuzzy Controller with Jog-Shuttle Switch (Turn+Push)	
Door		Magnetic Packing Door with Pair Glass	
Plate Size		w700 × d600mm	
Platform		Included Universal Platform for Various Shapes & Sizes of Flasks	
Optional Flask Holder		Durable & Flexible Plastic Flask Holder (up to 1000ml)	
Available Max. Capacity of Flask Holder	for 50~100ml	Available 68 ea Flask Holder, for 50~100ml Flask	
	for 200~300ml	Available 36 ea Flask Holder, for 200~300ml Flask	
	for 500~1000ml	Available 21 ea Flask Holder, for 500~1,000ml Flask	
Safety Circuit		Over Temp./ Current Protector, Sensor Error Detector	
Material		Internal : Stainless-steel (# 304), External : Powder Coated steel	
Dimension (w × d × h)	Internal (mm)	700 × 700 × 1,100	700 × 700 × 1,790
	External (mm)	1,290 × 850 × 1,445	1,290 × 850 × 2,125
Packing Size (w × d × h) (mm) & Gross Weight		1,500 × 1,200 × 1,750	1,500 × 1,200 × 2,350
		397 kg	555 kg
Power Consumption		2.4 kW	3.2 kW
Electrical Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50/60Hz	1 Phase AC 120V, 60Hz or AC 230V, 50/60Hz or 3 Phase
Cat. No.	230V	DH.WIS05002	DH.WIS05004
	3Phase	-	DH.WIS03004

* Other Specifications are available upon Customer’s Request.

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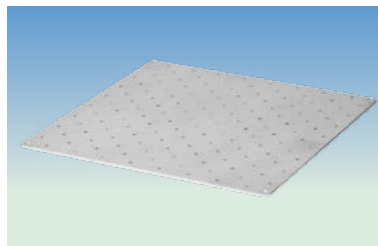
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Optional Platform/Spring Rack/Flask Holders

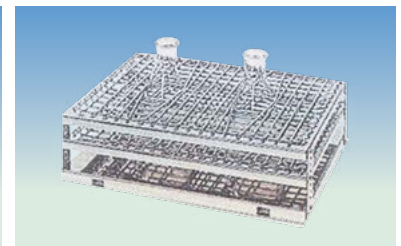
- DH.WIS504620** (1) Universal Platform, w645×h645mm, “**SP620**”, for “**WIS-ML02/04**”
DH.WIS504520 (2) Universal Spring Rack, w653×d653×h135mm, “**SR520**”,
 for “**WIS-ML02/04**”
DH.WIS504030 (3) ABS Flask Holder, for 50~100ml Flask, “**FH100**”,
 for “**SHO**”, “**SHR**” and “**IS**”
DH.WIS504035 (4) ABS Flask Holder, for 200~300ml Flask, “**FH250**”,
 for “**SHO**”, “**SHR**” and “**IS**”
DH.WIS504040 (5) ABS Flask Holder, for 500~1000ml Flask, “**FH500**”,
 for “**SHO**”, “**SHR**” and “**IS**”
DH.WIS600100 (6) STS Wire Spring Flask Holder, for 100ml Flask, “**FHS100**”,
 for “**SHO**”, “**SHR**” and “**IS**”
DH.WIS600250 (7) STS Wire Spring Flask Holder, for 250ml Flask, “**FHS250**”,
 for “**SHO**”, “**SHR**” and “**IS**”
DH.WIS600500 (8) STS Wire Spring Flask Holder, for 500ml Flask, “**FHS500**”,
 for “**SHO**”, “**SHR**” and “**IS**”
DH.WIS601000 (9) STS Wire Spring Flask Holder, for 1000ml Flask, “**FHS1000**”,
 for “**SHO**”, “**SHR**” and “**IS**”



**Multi-Stack Refrigerated Shaking Incubator
 with 4 × Universal Platform “WIS-ML04”**



**(1) Universal Platform “SP620”
 (Included)**



**(2) Universal Spring Rack “SR520”
 (Optional)**



Flask Holders (Optional)



**STS Wire Spring Flask Holder
 (Optional)**

Notes

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