# 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℃/−20℃ to 100℃, up to 98% RH, 스마트 항온항습기

*SMART Precise Temp. / Humidity Chamber "ThermoStable™ STH-155"*

- ***Made in Korea*** ■ ***CE Certified*** ■ ***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℃/-20℃ to 100℃) 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℃ to 100℃ | | | |
| 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℃ to 100℃ / 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℃ | | | |
| | Stability | ±0.3℃ | | | |
| Humidity | Accuracy | ±0.3% RH | | | |
| | Stability | ±0.3% RH at 70% | | | |
| Heat-up Time | | 35 min (-20℃ to 80℃) | | | |
| Cool-down Time | | 45 min (+20℃ to -20℃) | | | |
| 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 | | CE Certified, 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 Reqts. | | 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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