Constant Temperature & Humidity Chamber

- Product experiments in low temperature fast cooling condition, seeds keeping, environment change experiments of microorganisms, foods, medicines, temperature and humidity variations of electronic parts, corrosion experiments of metals, product experiments in low temperature fast cooling condition such as car parts, rubber, paints, fiber, paper, pulp, cosmetics, etc
- The humidity required for growth of plants is adjustable from 30% to 98%. It is possible to maintain a precise humidity by adopting electronic humidity.
- It has the mode to set operating temperature of the freezer. Therefore, it can prolong the life of the freezer by automatically preventing to operate at an unnecessarily high temperature.

DS-541(Recorder-option)



DS-542P(Recorder-option)



DS-540

Temperature : No
Humidity : OK



Temperature, Humidity 1step digital type

		DS - 540	DS - 541	DS - 542	DS - 543
Main controller		Microprocessor digital displayed Auto-tuning multi-functional P.I.D controller (Temp, Time)			
Temperature	Range	None	-20℃ to 100℃ / -40℃ to 150℃(Option)		
	Accuracy	None	±0.2℃ at 37℃		
	Controller	None	Microprocessor digital displayed Auto-tuning multi-functional P.I.D controller (Sensor PT100Ω)		
Humidity	Range	60 to 98%RH	30 to 98%RH at 35℃		
	Accuracy	±2% at 70% (30℃standard)	±2% at 70%(30℃ standard)		
	Controller	Microprocessor digital displayed Auto-tuning multi-functional P.I.D controller			
	Humidifier	Evaporation by motor(SUS316 pipe heater)			
Timer		99min. 59sec. or 99hr. 59min. or 99days 23hours or continuous selectable			
Dimensions (WxDxH)mm	In	300 x 300 x 300	500 x 500 x 600	600 x 700 x 800	1000 x 800 x 1000
	Out	400 x 400 x 510	900 x 870 x 1400	1000 x 1070 x 1600	1400 x 1070 x 1800
Capacity		27 L	150 L	336 L	800 L
Material (In/Out)		Stainless steel (SUS 304) / Steel plate with powder coating(SCP-1)			
Door		Silicon packing door with glass door			
Compressor		None	1.5HP	2HP	3HP
Shelves		SUS 1ea	SUS 2ea	SUS 3ea	SUS 5ea
De-humidity heater		Silicon heater 80W x 2ea			
Power (AC220V, 60Hz)		1phase, 0.2Kw	1phase, 3.5kw, 16A	1phase, 4.4kw, 20A	1phase, 6,2kw, 28A

Temperature 11 step Program type , Humidity 1 step digital type

	DS - 541N	DS - 542N	DS - 543N
Temp. controller	Programmable 11step, Microprocessor LCD displayed, Auto-tuning multi-functional P.I.D controller (Temp, Time)		
Humidity controller	Microprocessor digital displayed Auto-tuning multi-functional P.I.D controller		

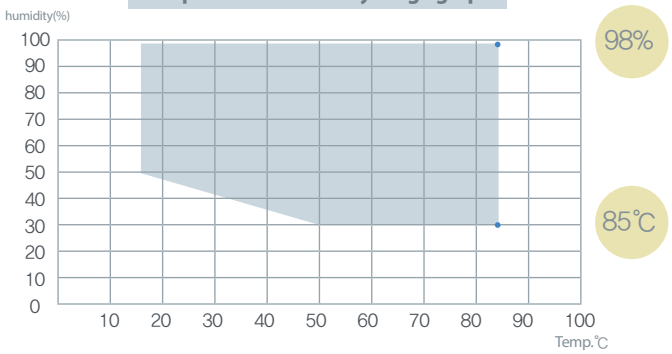
Constant Temperature & Humidity Chamber

온도 습도 냉동 냉장 잠금 깨끗

DS-543P



Temperature / Humidity range graph



Option Accessories

Digital recorder



2 Channel recorder



PC connect Kit



Controller



		DS - 541P	DS - 542P	DS - 543P
Main controller		Programmable 11step, Microprocessor LCD displayed, Auto-tuning multi-functional P.I.D controller (Temp, Time)		
Temperature	Range	-20℃ to 100℃ / -40℃ to 150℃ (Option)		
	Accuracy	±0.2℃ at 37℃		
	Controller	Programmable 11step, Microprocessor LCD displayed, Auto-tuning multi-functional P.I.D controller		
Humidity	Range	30 to 98%RH at 35℃		
	Accuracy	±2% at 70% (30℃ 기준)		
	Controller	Microprocessor digital displayed Auto-tuning multi-functional P.I.D controller		
Timer		99min. 59sec. or 99hr. 59min. or 99days 23hours or continuous selectable		
Humidifier		Evaporation by motor(SUS316 pipe heater)		
Dimensions (WxDxH)mm	In	500 x 500 x 600	600 x 700 x 800	1000 x 800 x 1000
	Out	900 x 870 x 1400	1000 x 1070 x 1600	1400 x 1070 x 1800
Capacity(Liter)		150	336	800
Material (In/Out)		Stainless steel (SUS 304) / Steel plate with powder coating(SCP-1)		
Door		Silicon packing door with glass door		
Compressor		1.5HP	2HP	3HP
Shelves		SUS 2ea	SUS 3ea	SUS 5ea
De-humidity heater		Silicon heater 80W x 2ea		
Power (AC220V, 60Hz)		1phase, 16A	1phase, 20A	1phase, 28A
Option Accessories				
Controller		Programmable microprocessor multi-functional P.I.D controller with 5.7" TFT-LCD color monitor touch screen(120-Pattern, 1200Step, 999Cycle)		
Communication		RS-232 or RS-485 interface & communication PC software program, USB converter		
Data acquisition		6 channel digital recorder, Chart type 2 channel, Digital type 2channel, USB memory		