



Choongwae Hospital Equipment

STERILIZER



CHS-ST065

CHS-ST045

TOPSTEL
STEAM
STERILIZER



HEATER COMPARTMENT With a separate heater compartment at the bottom of the chamber, the sterilizer not only has a larger capacity than other products, but also utilizes less water for sterilization. The design minimizes heating time and greatly improves drying performance.

Air Evacuation after Water Supply The method of vacuum drying after water is supplied to the chamber differs from existing processes in that all air in the chamber is removed completely with a vacuum pump before water is added, to assure 100% sterilization. The conventional water supply method allows a considerable volume of air on the objects of sterilization, so that a thorough and complete sterilization is not guaranteed. Certain spores in an air layer may not be completely removed. The Air Evaporation Method reduces the evaporation point of the water and forcibly releases all the air in the objects to be sterilized, guaranteeing perfect sterilization results with quick heating and steam penetration.

Appealing Design The product is beautifully designed for a refined appearance and harmonious integration in a hospital environment.

Quick Water Supply By supplying water directly into a vacuum, the filling time is sharply reduced (20 seconds at most) and the product is usable continuously at high temperatures. It supplies water faster than with conventional methods.

Fully automated Control The whole process of sterilization, from vacuum sterilization to vacuum drying is electronically controlled and fully automatic. Once the sterilization program is set, only press START and the complete process of Vacuum Build-up → Water Supply → Heating → Sterilization → Air Release → Vacuum Drying takes place automatically.

RECORDER Installation The printer records sterilization conditions (date, temperature, time and drying time, etc.) under normal operation.

Self-diagnosis A total of 13 error conditions are displayed under the self-diagnostic control. Your Safety is our top Priority!



This steam sterilizer is designed for user's convenience and patient's safety preferentially.

Self-diagnosis:

A total of 13 error conditions are displayed under the self-diagnostic control.

ERROR-1	Water tank low
ERROR-2	Heater overheated (Standard throughout the process: 155°C, Dry: 190°C)
ERROR-3	Door open during operation
ERROR-4	Sterilization temperature deviations
ERROR-5	Short water supply
ERROR-6	Heating time exceeded
ERROR-7	Temperature sensor error (Disconnection /Short circuit)
ERROR-8	Heater temperature sensor error (Disconnection /Short circuit)
ERROR-9	Pressure sensor error (Disconnection /Short circuit)
ERROR-10	Vacuum release test failure
ERROR-11	Vacuum lead time excess setting
ERROR-12	Chamber overheated during water supply
ERROR-13	Chamber pressure exceeded (2.4kgf/cm ²)

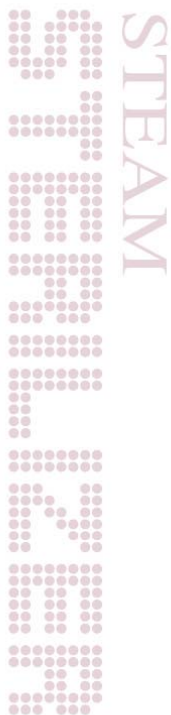
LCD Display:

On the control part, both the LCD display and FND display the steps of the sterilization process. The displays are large and easily visible, even from a distance. The LCD displays sterilization temperature, pressure, lead time, drying temperature and time, heater compartment temperature, water tank level, and door open/close status, so that the user can monitor the equipment fully at any time.



OPTION : Cart



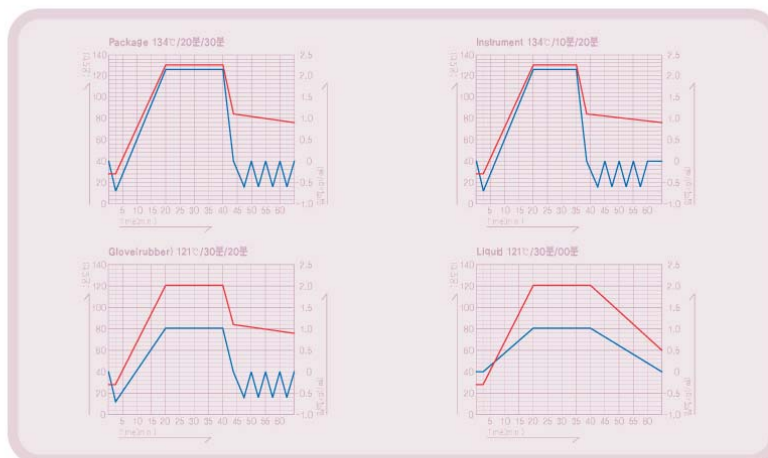


Sterilization Programs:

The test program mode is the most convenient to use. With the Bowie-Dick test, a special program to check sterilizer performance on a regular basis, the efficiency and reliability of the equipment is maintained. The VACUUM LEAKAGE TEST shows any leaks in the sterilizer, so that the user can determine firsthand whether the product has a problem.

Basic program

	Pack	Instrument	Glove	Liquid
Temperature	134°C	134°C	121°C	121°C
Pressure	2kgf/cm ²	2kgf/cm ²	1kgf/cm ²	1kgf/cm ²
Time	20 min	10 min	30 min	30 min
Dry Time	30 min	20 min	20 min	—

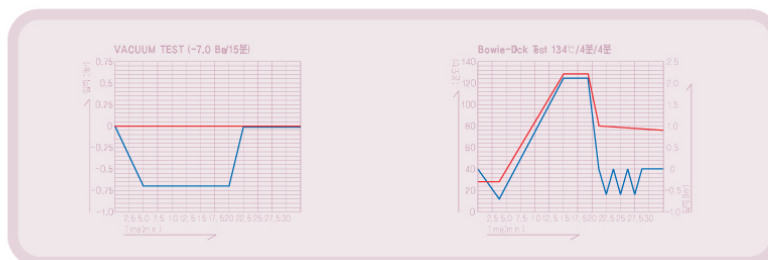


User program

	Manual program	Dry program
Temperature	121°C~134°C	—
Pressure	1kgf/cm ² ~ 2kgf/cm ²	—
Time	0~60 min	—
Dry Time	0~60 min	0~60 min

Test program

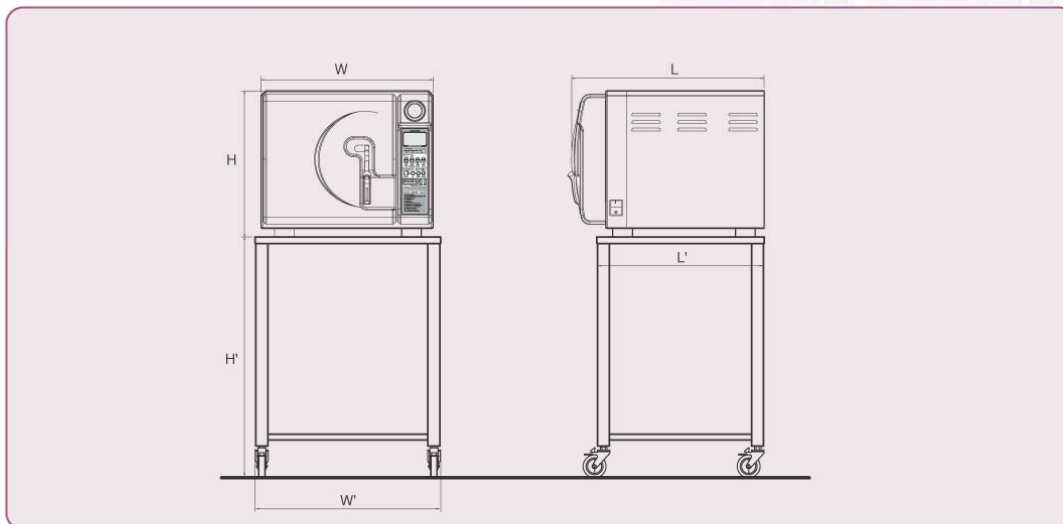
	Vacuum leakage test	Bowie-dick test
Temperature	Normal temperature	134°C
Pressure	0kgf/cm ²	2kgf/cm ²
Time	15 min	4 min
Dry Time	—	4 min



STEAM



■ DIMENSION



■ SPECIFICATIONS

MODEL		CHS-ST045	CHS-ST065
Overall Size		580(W) × 510(H) × 650(L)mm	580(W) × 510(H) × 820(L)mm
Chamber	Size	310(W) × 340(H) × 430(L)mm	310(W) × 340(H) × 620(L)mm
	Type	Square	
	Material	KS D 3577-85 (STS316)	
	Capacity	45 Liter	65 Liter
Sterilizer Temperature, Pressure		121°C(1kgf / cm ²) ~ 134°C(1kgf / cm ²)	
Reservoir Capacity		6.0 Liter	8.0 Liter
Heater		2.3 kW	2.9 kW
Power Source		AC220V 50/60Hz 2.3 kW	AC220V 50/60Hz 2.9 kW
Air Removal		Oil-less vacuum pump(40 RNS)	Oil-less vacuum pump(50 RNS)
Display		Graphic LCD	
Control Mode		Micro processor	
Recorder		Dot Printer	
Dry System		Vacuum dry system	
Weight		93kg	110kg

■ OPTION ACCESSORY

Cart	CHS-ST045	620(W') × 820(H') × 560(L')mm
	CHS-ST065	620(W') × 820(H') × 750(L')mm
Printer	Dot Printer	