

Innovative Technology to Improve the Quality of Human Life

Features of New Steam Sterilizers, Digital Fuzzy Controlled Autoclaves

DAIHAN New Steam Sterilizers

DAIHAN's new Autoclaves are upgraded with a simpler and more ergonomic design. Unique and innovative 'Electronic Safety Door Locking System' and 'Steam Condensing Mechanism' maximize the user safety, which is the most critical feature of autoclave product. New Lever-type Door Handle makes anybody open and close the door very easily and safely. Both of Solid and Liquid cycles are offered up to the samples to be sterilized, which ensures optimum sterilizing performance.

>> Safety Upgrade

- Special 'Steam Condensing Mechanism' protects the user from hot steam after sterilizing cycle, by condensing the hot steam into small amount of water: patent registered.
- 'Safety Door Locking System' ensures the door firmly locked by electronic-controlled switch and solenoid latch while sterilizing cycle is ongoing. The door can be opened only when there is no hot-steam and high-pressure inside the pressure vessel: patent registered.
- **CE-MDD (0470)** certified as a medical device, by which DAIHAN's autoclaves can be supplied to the hospitals in Europe.
- Stainless Steel Cover is implemented to prevent the user from burn by high temperature in the pressure vessel.
- Very high quality **Over Pressure Valve** is used to automatically release abnormal high pressure inside the vessel.

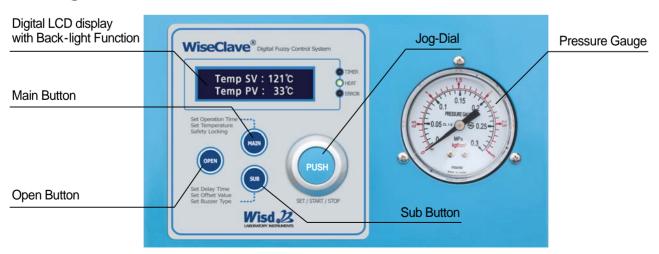


New Steam Sterilizers, Digital Fuzzy Controlled Autoclaves

>> Function/Convenience Upgrade

- One-Touch Lever-type Door Handle is invented and implemented for the user to open & close the door very easily and safely: patent registered.
- Two different operation mode of **Solid and Liquid Cycle** are offered, which can be chosen up to the kind of sample to be sterilized.
- New Jog-Dial Controller with simples user interface: patent registered
- Digital Timer functions for Delay time and Operation time are available.
- Innovative Easy-to-Use Digital Fuzzy Controller.
- Digital LCD with Back-Light

>> New Jog-Dial Controller



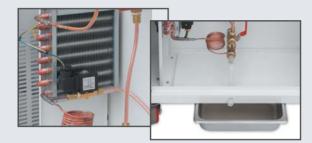
- Simplest and easiest User Interface by ergonomic design
- New design of Jog-Dial is more sturdy and convenient
- High quality Digital LCD with Back-Light
- One-touch 'Open button' to open the door only when sterilizing cycle is not on going



>>> Safety Electronic Door Locking System

Sterilizing cycle can be stated only when the door is completely closed.

Eclectro-mechanical sensor, solenoid latch, and one-touch Open button work together to implement the perfect safety door, which can be opened only when the temperature and pressure is low enough inside the pressure vessel.



>> Special Steam Condensing Mechanism

Hot steam generated by sterilizing cycle is not released out directly. It is condensed into a small amount of water just after the sterilizing cycle by special condensing mechanism, which protects the user from dangerous high temperature steam.



>>> Lever-type Sliding Door

This real innovation of door closing mechanism makes any user easily close the door with consistent degree of closing by a single hand, regardless of the level of strength in his/her arms. Opening is also very easy and can be done with single hand as well.



>> Liquid & Solid Cycle Mode

Operation mode is optional between Solid Cycle mode and Liquid Cycle mode. In Solid Cycle mode, heating is immediately off and steam is released quickly just after sterilizing period. But in Liquid mode, temperature is decreased very slowly and steam is released out little by little for much longer time.



>>> Using International Standard Components

Maintenance and Service is very convenient because most of the components and parts are internationally standard ones and available in the market.



>>> CE-MDD(CE 0470-Medical Device Directive) Certified

DAIHAN's new autoclaves are designed and produced strictly following European standard for electric and mechanical safety. So, it can be supplied to, and used safely in, world-wide hospitals and institutes requiring CE-MDD Certification.

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Articles

Cat No.

Description

DAIHAN® Steam Sterilizers, Digital Fuzzy-controlled Autoclaves, "WAC", 47-/60-/80-/100-Lit., up to 132°C, Max.2 kgf/cm² Electronic Door Lock, Steam Condensing Mechanism, Lever-type Sliding Door, Solid-/Liquid-Modes, CE-MDD Certified



Steam Sterilizers, Digital Fuzzy-Controlled Autoclave, With 2×Wire Baskets

- with Certificate & Traceability:
 Controlled by Serial Number, Certificate, Delivery-information,
 and Traceable Data Base System
- Patented Special Steam Condensing Mechanism
- Patented Jog-Shuttle Control System
- "CE-MDD (CE 0470 Medical Device Directive) Certified" (WAC-100 excluded)
- PL(Product Liability) Insurance
- * Ideal for Biotechnology, Clinical, Environmental, Medical and Food Industry.
- * Innovative Easy-to-Use Digital Fuzzy Controller.
- * Top-loading type Sterilizer for Easy Loading of Large Working Volume.
- * Digital Timer Function 'Delay Time' and 'Operation Time' can be Controlled.
- * Solid / Liquid Mode can be chosen by a customer considering a Sample Phase.
- * Automatic Over Pressure Release Valve ensure User Safety.
- * Electronic Door Lock Sensing System for User Safety.
- * Heat-Protective Lid Cover for User Safety.

Specification

Specification					
Capacity & Models		47 Lit. "WAC-47"	60 Lit. "WAC-60"	80 Lit. "WAC-80"	100 Lit. "WAC-100"
Temp. Range & Accuracy		Ambient 5℃ to 132℃, ±0.5℃ at 121℃			
Pressure & Gauge		1.2 kgf/cm² at 121°C / 2.0 kgf/cm² at 132°C, 0 ~ 3 kgf/cm²			
Sterilization mode		Solid- or Liquid-mode			
Heating Power/Consumption		2 kW	3 kW	2 kW ×2	2 kW ×2
Timer & Alarm		99 hr 59 min 59 sec, Error status & Timer-end			
Display		Digital LCD Display with Back-Light Function			
Controller		Digital Fuzzy-Control System (Fully Automatic)			
Door & Closing System		Lever-type Sliding Door / Safety Electronic Door Closing System			
Safety Circuit		Over-Temp./-Pressure/-Current protection, Sensor Error Detection			
Material		Stainless Steel (#304)-Pressure Vessel, Powder Coated Steel-External			
Basket		2ea of Stainless Steel Wire Baskets are Included			
Basket Dimension (mm)		Φ270×h240	Φ320×h240	Φ370×h240	ϕ 420 $ imes$ h240
Dimension (w×d×h)	Inner (mm)	Φ300×h670	Φ350×h650	Φ400×h650	Φ450×h630
	Outer (mm)	680×470×880	680×470×900	780×580×900	780×580×900
Packing Size (mm)		800×700×h1,280 mm		940×800×h1,350 mm	
Gross Weight (kg)		116 kg	120 kg	173 kg	173 kg
Power Supply*		1Phase - AC 120V, 60Hz or - AC 230V, 50/60Hz		1 Phase - AC 120V, 60Hz or - AC 230V, 50/60Hz 3 Phase with Terminal Block	

^{*} Other Specifications are available upon Customer's Request.

Ordering Information

* 2ea of Wire Baskets are included in the All Autoclaves

Autoclaves, I Phase, Digital Fuzzy Controlled

DH.WAC05047	Autoclave, 230V, 47 Lit., "WAC-47", with Cord / Plug
DH.WAC05060	, 60 Lit., "WAC-60", with Cord / Plug
DH.WAC05080	, 80 Lit., "WAC-80", with Cable
DH.WAC05100	, 100 Lit. , "WAC-100", with Cable
DH.WAC06047	Autoclave, 120V, 47 Lit., "WAC-47", with Cable
DH.WAC06060	, 60 Lit., "WAC-60", with Cable
DH.WAC06080	, 80 Lit., "WAC-80", with Cable
DH.WAC06100	, 100 Lit., "WAC-100", with Cable

Autoclaves, 3 Phase with Terminal Block for Custom-made Order

DH.WAC07080 Autoclave, 80 Lit., "WAC-80", with Terminal Block
DH.WAC07100 , 100 Lit., "WAC-100", with Terminal Block

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Description

Articles

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Ordering Information

(1) Spare Wire Baskets, Stainless Steel

 DH.Ba7011
 Wire Basket, ϕ 270×h240mm, "Ba7011", for 47 Lit. WAC-47

 DH.Ba7012
 ϕ 320×h240mm, "Ba7012", for 60 Lit. WAC-60

 DH.Ba7013
 ϕ 370×h240mm, "Ba7013", for 80 Lit. WAC-80

 DH.Ba7014
 ϕ 420×h240mm, "Ba7014", for 100 Lit. WAC-100

(2) Optional Perforated Bottom Baskets, Stainless Steel

Validation (IQ, OQ) Service

 DH.WAC30047
 Validation Service(IQ, OQ), "ACV47", for WAC-47

 DH.WAC30060
 , "ACV60", for WAC-60

 DH.WAC30080
 , "ACV80", for WAC-80

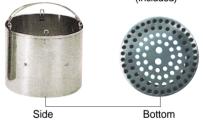
 DH.WAC30100
 , "ACV100", for WAC-100



Steam Sterilizers, Digital Fuzzy-Controlled
Autoclave



(1) Wire Basket Stainless Steel (Included)



(2) Perforated Bottom Basket, Stainless Steel (Optional)