

WiseClave®

Autoclaves



- **Steam Sterilizers Digital Fuzzy-Controlled Autoclaves.**

- Complete Safety Pressure Mechanism.
- Strong and Safety Screw Handle Door.
- Special Steam Condensing Mechanism for User Safety.

► **Steam Sterilizer
Digital Fuzzy-Controlled
Autoclave**



WAC-60

Our Autoclaves are manufactures according to ISO 13485

What is ISO 13485?

Specification of requirements for a system of organization offering design, development, production, installation and value added service of medical instruments. It is used for evaluation of reliability and capability of the organization. Because medical instruments are related to human health and life, most of the countries approve any party to sell the instruments only by a certification based on the law. In the case of EU, it is required to attach CE mark on a medical instrument by the directives of 93/42/EEC presented by the community, by which certification for quality management system of the organization is also required in order to be certified for conformity test of CE for medical instruments except for those with Class I grade.

ISO 13485 specification is the reference of this certification for the quality system.

On the other hand, governments of many countries who don't have their own capability to inspect the safety of medical instruments accept CE with ISO 13485 certification even though it's not an official system for the countries. So, many companies manufacturing medical instruments are required to get CE mark and ISO 13485 certification by the buyers in those countries for exporting deal.

What is CE/MDD mark?

In 1985, EU abolished gradually individual regulations and safety requirements of each country in order to promote free trade within Europe, and established new basic regulations which could be commonly used in whole European area. One of them is CE mark.

CE mark is a standard mark for unification of European market, which is applied to all the products used or sold in European market under the purpose of customer safety and environmental protection. It is currently a MUST in exporting corresponding products to EU since June of 1988.

Among these, CE/MDD (Medical Device Directives) is specified especially for medical instruments.

Getting CE/MDD mark is an indispensable condition for exporting to EU countries, because it is a compulsory article for all the medical instruments imported into EU to have CE/MDD mark attached since January 1st of 1999.

ISO 13485 certification for quality management system of an organization is a preliminary condition to get CE/MDD mark for the products manufactured by the organization.

WiseClave® WAC-series

Autoclaves are products guarantee very high grade of Safety,
and are being exported to the hospitals in European countries.

Wisdom
LABORATORY INSTRUMENTS



“witeg” **WiseClave® WAC** Steam Sterilizers, Digital Fuzzy-controlled Autoclaves with Steam Condensing Mechanism, 2×Wire Basket, up to 132 °C, Max.2 Kgf/cm²,47- /60- /80- Lit.



Digital Fuzzy-Controlled Autoclave (WAC-60)

Patented Control System (No. 10-0554098)

1 or 2 Mode Buttons + Jog Shuttle Switch
Realize “Easy to Use”

- **Special Steam Condensing Mechanism**
- **Patented Jog-Shuttle Control System**
- **“CE-MDD (CE 0470-Medical Device Directive)**

Application & Features

- * 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.
- * Casters equipped for Excellent Mobility.
- * Digital LCD Display with Back-Light Function.
- * Digital Timer Function - ‘Delay Time’ and ‘Operation Time’ can be Controlled.
- * Solid / Liquid Mode can be chosen considering a Sample Phase.
- * Strong and Safety Screw Handle Door.
- * Complete Safety Pressure Mechanism.
- * Over-Temperature-/Pressure-/Current protection, Sensor Error Detection, Automatic Over Pressure Release Valve Ensure User Safety.
- * Electronic Door Lock Sensing System for User Safety.
- * Special Steam Condensing Mechanism-/ Heat-Protective Lid Cover for User Safety.
- * **Patented Jog-Shuttle Control System.**
- * “CE-MDD (CE 0470-Medical Device Directive).

Specification

Model		WAC-47	WAC-60	WAC-80
Controller		Digital Fuzzy-Control System (Fully Automatic)		
Dimension (w×d×h)	Inner (mm)	φ 300×h670	φ 350×h650	φ 400×h650
	Outer (mm)	680×470×880	680×470×900	780×580×900
Dimension of Basket		φ 270×h 250	φ 320×h 250	φ 370×h 250
Heater		2 kW	3 kW	2 kW × 2
Capacity		47 Lit.	60 Lit.	80 Lit.
Temp.	Range	Ambient 5 °C to 132 °C		
	Accuracy	±0,5 °C at 121 °C		
Sterilization mode		Liquid or Solid mode		
Display		Digital LCD Display with Back-Light Function		
Timer		99 hr 59 min 59 sec		
Pressure		1,2 Kgf / cm ² at 121 °C, 2,0 Kgf / cm ² at 132 °C		
Gauge		0 ~ 3 kgf / cm ²		
Material	Pressure Vessel	Stainless Steel (#304)		
	External	Powder Coated Steel		
Door Locking		One Touch Pressure Handle Type		
Safety Device		Over Temp., Over Pressure and Over Current Protector Electronic Door Lock Sensing System Steam Condensing System Alarm (Error Status)		
Basket		2 ea of Wire Baskets Included		
Others		CE-MDD (Medical Device Directive)		
Packing Dimension (w×d×h) (mm)		800×700×1.280		940×800×1.350
Gross Weight		116 kg		171 kg
Power Consumption		2 kW	3 kW	4 kW
Power plug type		Hybrid E+F		3~ 16A CEE
Power Supply*		AC 230 V, 50 / 60 Hz		3~, AC 230 V, 50 / 60 Hz

* Other Specifications are available upon Customer's Request.

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Ordering Information

- DH.WAC01047* Autoclave, **WAC-47**, 47 Lit.
 - DH.WAC01060* , **WAC-60**, 60 Lit.
 - DH.WAC01080* , **WAC-80**, 80 Lit.
- *2 x Wire basket Included

Spare Accessories

- DH.WAC10047 Wire Basket, Stainless Steel, **WAC10047**,
φ 270 × h 250 mm, for 47 Lit.
- DH.WAC10060 Wire Basket, Stainless Steel, **WAC10060**,
φ 320 × h 250 mm, for 60 Lit.
- DH.WAC10080 Wire Basket, Stainless Steel, **WAC10080**,
φ 370 × h 250 mm, for 80 Lit.

Optional Accessories

- DH.WAC20047 Perforated Basket, Stainless Steel, **WAC20047**,
φ 270 × h 250 mm, for 47 Lit.
- DH.WAC20060 Perforated Basket, Stainless Steel, **WAC20060**,
φ 320 × h 250 mm, for 60 Lit.
- DH.WAC20080 Perforated Basket, Stainless Steel, **WAC20080**,
φ 370 × h 250 mm, for 80 Lit.

Validation (IQ, OQ & PQ) Service

- DH.WAC30047 Validation Service(IQ, OQ & PQ), **ACV47**, for **WAC-47**
- DH.WAC30060 , **ACV60**, for **WAC-60**
- DH.WAC30080 , **ACV80**, for **WAC-80**



Stainless Steel
Bottom Perforated Basket
: Option



Stainless Steel
Wire Basket
: Spare