

**>> OUR CONVENIENT
AUTOCLAVE, RIGHT ON
THE LABORATORY
BENCH. <<**



18 LITER VOLUME

STERILISATION

MATERIALS TESTING

MEDIA PREPARATION

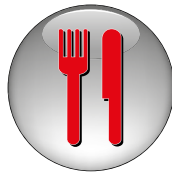
Applications

THE WIDE RANGE OF USING CERTOCLAV AUTOCLAVES



MICROBIOLOGY / BIO-CHEMISTRY

- Autoclave culture mediums
- Refuse sterilisation
- Efficiently processes small amounts – just in time



FOOD INDUSTRY

- The complete autoclave solution for laboratories in the food processing industry
- Sterilisation of utensils and refuse
- Culture medium preparation



MATERIAL TESTING

- Testing for vapour resistance and material quality
- Long running cycles, ICP-TM 650, HAST test, pressure vessel test, hydrolysis, GLB-AL 631
- Special fabrications available upon request
- CertoClav MultiControl with a freely programmable electronic control



SCHOOLS AND UNIVERSITIES

- Robust autoclave, ideal for daily training operation
- Special deals for schools – please inquire



PHARMACY

Sterilisation of instruments and packaging (i.e. eyedrop bottles and liquids)

Overview

THE MAIN FEATURES OF OUR PRODUCTS



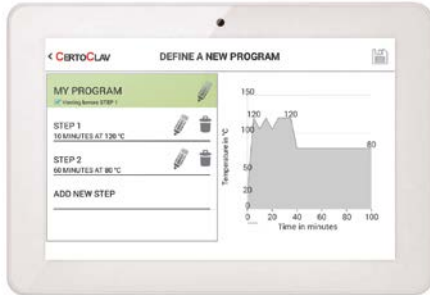
| | | Max. Temperature | Electronic Control | Programmable | Touch Screen + WLAN | USB Port | Printer Port | Volume | Chamber material | |
|----------------------|-----|------------------|--------------------|--------------|---------------------|----------|--------------|--------|------------------|--|
| ESSENTIAL | 121 | ✓ | | | | | ✓ | 12/18 | Alu | <ul style="list-style-type: none"> Affordable solution Printer for documentation Automatic |
| CLASSIC | 140 | | | | | | | 18 | SS | <ul style="list-style-type: none"> Very low maintenance (no electronics) Time tested for 50 years |
| MULTICONTROL 2 | 140 | ✓ | ✓ | | ✓ | ✓ | | 18 | SS | <ul style="list-style-type: none"> Programmable autoclave Multi-step time/temperature |
| MULTICONTROL 2 TOUCH | 140 | ✓ | ✓ | ✓ | ✓ | ✓ | | 18 | SS | <ul style="list-style-type: none"> Same as MultiControl 2 Touch Screen Controller Cloud access |
| CONNECT | 140 | ✓ | ✓ | ✓ | | ✓* | | 18 | SS | <ul style="list-style-type: none"> Fully automatic (electric valves) Media sensor optional |
| CULTURE MEDIA | 140 | ✓ | ✓ | ✓ | | ✓* | | 18** | SS | <ul style="list-style-type: none"> Media preparator Internal stirrer Port for pumping, sterile Medien |

* via Tablet Controller ** 10 liter Media Container



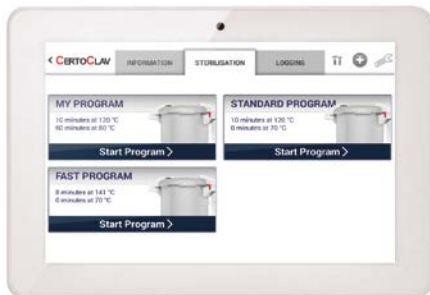
CertoControl

THE USER INTERFACE WITH ON-SCREEN TRAINING.



Define custom programs

- With a simple interface you can program multi-step processes of temperature and time. E.g. 20 minutes at 110° C, then 3 hours at 120° C and then 1 hours at 80° C.
- Long term cycles possible. Programming can be done in minutes, hours and days.
- Program is graphically displayed.
- Programs can be named.
- One-click solution to program a fractioned venting process.



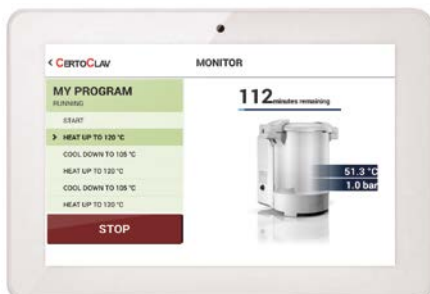
Choose program

- All programs are displayed as icons with name and key data.
- Programs can be added and deleted.
- Full list of steps of each program can be displayed.



Watch step-by-step video instructions

- All usage steps are explained in videos, e.g. when used as an autoclave the steps to load the unit are explained.
- No more need to train staff – the unit explains everything itself.
- Videos can be skipped once staff is proficient in using the equipment.



Show status of running programs

- Current step of program is displayed.
- Current data displayed.
- Time passed and remaining is displayed.



Scroll through protocol history

- Protocols are stored on the device.
- Target temperature and actual temperature are graphically displayed and accessible in numerical format.
- Error messages are displayed in detailed with explanation.

CertoCloud

EASY DATA ACCESS AND STORAGE.
ONLINE DEVICE MANAGEMENT.



Secure Connection

- SSL encryption
- Secure server
- 100 % data privacy



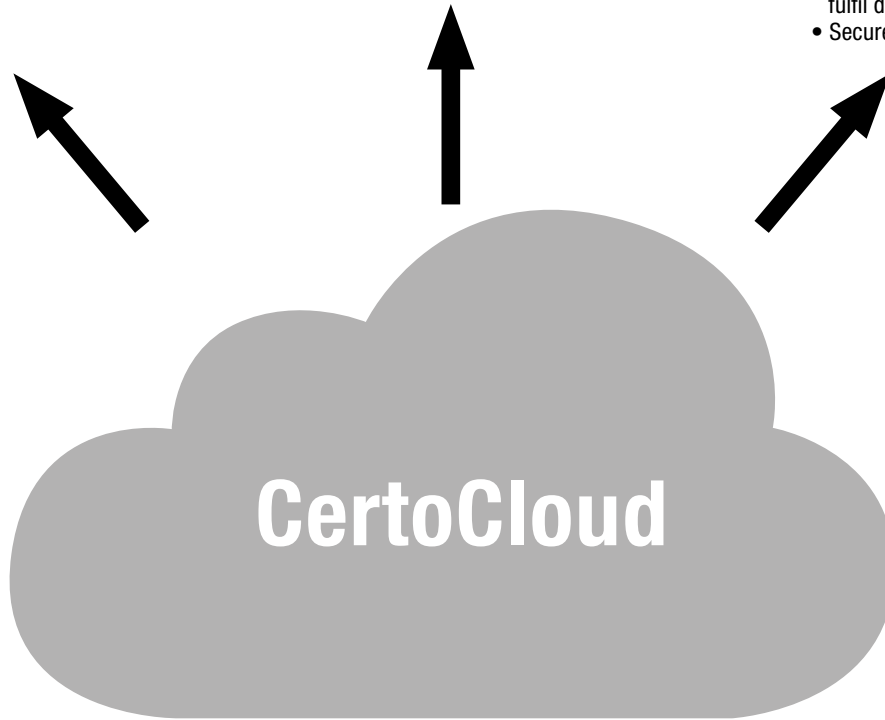
Multi Device Management

- Combine all devices in one account
- Create programs
- Disseminate programs to all devices



Long Term Data Storage

- All data stored for 10 years to fulfil documentation requirements
- Secure backup



CertoCloud



Customization

- Custom reports
- Direct printing
- Freely definable data formats



Email Notifications

- Alarms
- Cycle complete
- Process data



User Management

- Individual accounts
- Accounts linked to devices

CertoClav Essential

THE ECONOMIC BASIC AUTOCLAVE

LOW COST
SINGLE BUTTON
CONTROL
FRACTIONED
VENTING



Art.-No. 8510173 (12 litres) / 8510183 (18 litres)

FEATURES

- Autoclave with one button controller. Just push „Start“ and the sterilisation process automatically runs.
- Sterilisation process consists of:
 - 3 x reaching 115° C and cooling for fractioned venting
 - Reaching 121° C and holding for 15 Minutes
 - Cool down to 80° C
- Printer port for printing protocols.

INCLUDED

- Control unit with single button control
- Printer port

ACCESSORY

Wire basket

Art.-No. 8583010
Diam. 23, stainless steel
For easy filling with
sterilisation goods.



Printer

Art.-No. 1300187
For easy print out of
your documentation.



CertoClav Classic

**AUTOCLAVING UP TO 140°C
WITH TIME TESTED TECHNOLOGY**

**THERMOSTAT
PRECISION VALVE
TIMER**



Art.-No. 8510174 (for valve with 125 / 140° C), 8510184 (for valve with 115 / 121° C). Both 18 litres.

FEATURES

- One of the lowest cost solutions for reliable sterilisation and materials testing up to 140° C / 2,7 bar.
- Ultra-low maintenance autoclave with time tested technology.
- Precision valves guarantee that the required pressure and temperature for sterilisation are reached.
- Two levels selectable:
125° C (1.4 bar / 20 psi) or 140° C (2.7 bar / 39 psi),
alternative valve for 115° C / 121° C available

INCLUDED

- Precision valve for 125 / 140° C (intermediate values possible)
- Thermostat for heat regulation
- Timer switch (5 - 60 minutes, permanent on)

ACCESSORY

Wire basket

Art.-No. 8583010
Diam. 23, stainless steel

For easy filling with
sterilisation goods.



CertoClav MultiControl 2

THE FREELY PROGRAMMABLE AUTOCLAVE

PRINTER PORT
MULTI-LANGUAGE
PC PORT



Art.-No. 8510175 (18 litres)

FEATURES

- Set programs for all sterilisation tasks
- Logging of processes with PC Software (basic version included) or via printer.
- Simple program programmable on the controller (1 time / temperature step)
- Complex programs (multiple time / temperature steps) can be entered with PC Software (Professional version required).
- Automatic venting process for reliable sterilisation.
- Programmable from room temperature to 140° C
- Suitable for materials testing (ICP-TM610, HAST, GLB-AL 631)

INCLUDED

- Controller with with printer port and USB port
- Large LCD screen with temperature display

ACCESSORY

Wire basket

Art.-No. 8583010
Diam. 23, stainless steel
For easy filling with
sterilisation goods.



Printer

Art.-No. 1300187
For easy print out of
your documentation.



PC Software Professional Version

Art.-No. 8200210 (Art.-No. 8200211
when purchased in bundle with autoclave)
For programming of multi step
programs.

CertoClav MultiControl 2 Touch

THE AUTOCLAVE WITH TOUCH SCREEN AND WIFI CONNECTION

PROGRAMMABLE

TOUCH SCREEN
CONTROLLER

WLAN/CLOUD
CONNECTION



Art.-No. 8510298 (18 litres)

FEATURES

- Automatic long term documentation in the cloud. Digitally signed protocols according to 21 CFR Part/GMP guidelines.
- Freely programmable autoclave (by time and temperature, 6 program slots, each 14 steps).
- All features of CertoControl and CertoCloud.
- Printer port for printing of local.

INCLUDED

- 7 inch HD touch screen controller with WiFi and Bluetooth.
- Software with key features:
 - User Management
 - On-Screen video training and instructions for use
 - Live update of software
 - Video connection to support
 - One-touch ordering of spareparts
 - Programming of autoclave
 - Multiple languages
- Additional stand-alone power electronics that can be operated without touch screen controller.

ACCESSORY

Wire basket

Art.-No. 8583010
Diam. 23, stainless steel
For easy filling with
sterilisation goods.



Printer

Art.-No. 1300187
For easy print out of
your documentation.



Tablet controller holder

Art.-No. 1300463
Wall and table mountable
holding arm.

CertoClav Connect

THE AUTOCLAVE FOR EASY VALIDATION AND DOCUMENTATION

WEB CONNECTED
EN 13060 CONFORMING
GLP / GMP READY



Art.-No. 8510176 (18 litres)

FEATURES

- HD touch screen controller for intuitive operation
- Connected to CertoCloud for online documentation
- Latest online security technology
- Usage instructions come as videos on the tablet controller
- Electromechanical lock opens when units has reached 80° C for safe sterilisation of liquids
- Useable as water bath with open lid
- Media sensor optionally available

INCLUDED

- HD Touch Screen controller with WiFi and Bluetooth
- All required Software is on the controller
- Exhaust steam condensator
- Validation port
- Temperature measurement in water and in steam

ACCESSORY

Wire basket

Art.-No. 8583010
Diam. 23, stainless steel
For easy filling with
sterilisation goods.



Media sensor

Art.-No. 1300185
For precise sterilisation of liquids.

Tablet controller holder

Art.-No. 1300463
Wall and table mountable
holding arm.

CertoClav Culture Media

THE AUTOCLAVE FOR EASY MEDIA PREPARATION

MEDIA
PREPARATOR

CFR 21 PART 11
COMPLIANT CLOUD
DOCUMENTATION

PROCESS PORTS



Art.-No. 8510177 (18 litres)

FEATURES

- Media preparator for up to 10 litres of culture media. Sterilisation up to 140° C.
- Ports for pumping out liquid and inserting additives.
- In waterbath mode, temperatures under 100° C can be operated with open lid.

INCLUDED

- 10 litre culture media stainless steel bucket.
- Media sensor for process guidance based on media temperature.
- Magnetic Stirrer for homogeneity.
- Process ports for additives and for pumping out sterile media.
- Touch screen controller with cloud connection for GMP / 21 CFR Part 11 compliant documentation (3 month cloud usage included).

ACCESSORY

Wire basket

Art.-No. 8583010
Diam. 23, stainless steel
For easy filling with
sterilisation goods.



Tablet controller holder

Art.-No. 1300463
Wall and table mountable
holding arm.

TECHNICAL DETAILS

| | ESSENTIAL | CLASSIC | MULTICONTROL 2 |
|-----------------------|--|---|--|
| Key benefit | Low cost professional autoclave | Low cost autoclave for sterilisation up to 140° C with low maintenace | Electronic autoclave with PC/ printer documentation. Freely programmable (with Pro Software) |
| Core use case | Automatic sterilisation of solids and waste | Sterilisation with low requirement concerning documentation | Sterilisation up to 140° C with documentation on printer or PC, Materials testing |
| Temperature control | Electronic | Mechanical thermostat | Electronic |
| Pressure control | Via temperature | Mechanical precision valve | Via temperature |
| Interface | Single button and 5 LEDs | Temperature selection knob | LCD display |
| Steam release | Automatic Steam release cock | Manual steam release cock | Automatic Steam release cock |
| Other key components | Printer port | Mechanical timer | |
| Optional equipment | Wire basket, printer | Wire basket | Wire basket, printer, pro licence of PC software (for multi step programs) |
| Temperature range | 121° C | 125° C / 140° C selectable. Altern. model: 115° C / 121° C | Room temp. to 140°C, water bath mode with open lid |
| Max working pressure | 1,2 bar | 2,7 bar | |
| Chamber material | Aluminium | Stainless steel 304L | |
| Volume | 12 or 18 | 18 | |
| Diameter | 24 | 26 | |
| Rated voltage, Output | 230V AC, 50-60 Hz, 1900W | 230 V AC, 50-60 Hz, 1300W | |
| Safety | 4 fold safety system | | |
| Compliance | CE marked, EU pressure directive 27/93/EG, Low voltage directive 2006/95/EG, Laboratory safety directive EN 61010-1 and -4, Electro magnetic compatibilty EN 61326, Workplace safety directive 2004/40/EG and 2008/46/EG | | |

TECHNICAL DETAILS

| | MULTICONTROL 2 TOUCH | CONNECT | CULTURE MEDIA |
|-----------------------|--|--|--|
| Key benefit | Freely programmable autoclave with documentation in the cloud | Freely programmable autoclave, with electrical lock and documentation in the cloud | Culture Media preparator with internal stirrer and process ports |
| Core use case | Sterilisation und materials testing in environments with high documentation requirements | Fully automatic autoclave for liquids sterilisation and documentation in the cloud | Preparation of up to 10 litres of culture media |
| Temperature control | Electronic | | |
| Interface | HD touch screen controller | | |
| Pressure control | Via temperature | Electronic pressure sensor | Electronic pressure sensor |
| Steam release | Automatic Steam release cock | Electrical valve | Electrical valve |
| Other key components | WiFi, Printer port, PC Port (USB) | WiFi, Bluetooth | Stirrer, 10 l media bucket, media sensor, process ports, WiFi, Bluetooth |
| Optional equipment | wire basket, printer, holder for for tablet controller | wire basket, media sensor, holder for tablet controller | wire basket, holder for tablet controller, port for additives, extraction port |
| Temperature range | Room temp. to 140° C, water bath mode with open lid | | |
| Max working pressure | 2,7 bar | | |
| Chamber material | Stainless steel 304L | | |
| Volume | 18 | | |
| Diameter | 18 | | |
| Rated voltage, Output | 230 V AC, 50-60 Hz, 1300 W | | |
| Safety | 4 fold safety system | | |
| Compliance | CE marked, EU pressure directive 27 / 93 / EG, Low voltage directive 2006 / 95 / EG, Laboratory safety directive EN 61010-1 and -4, Electro magnetic compatilbity EN 61326, Workplace safety directive 2004 / 40 / EG and 2008 / 46 / EG | | |

CONTACT



CERTOCLAV

Certoclav Sterilizer GmbH
Georg Grinninger-Str. 37
A-4050 Traun
Phone: +43 (0)7229 689
www.certoclav.com

Orders, technical customer service, custom-manufacture, dealer verification:

Christina Bokesch, Phone: +43 (0)7229 689 26, Fax: +43 (0)7229 689 20
Email: bokesch@certoclav.com

Product Manager: Klaus David, Phone: +43 (0)7229 689 28, Email: david@certoclav.com

Operating instructions, technical information and operation videos: www.certoclav.com.