

**>> 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



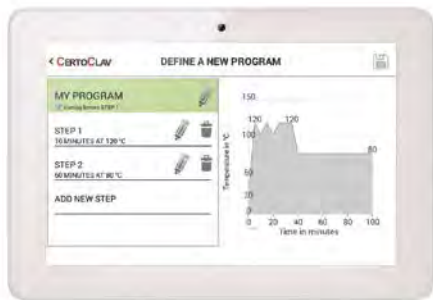
|                      |     | Max. Temperature | Electronic Control | Programmable | Touch Screen + WLAN | USB Port | Printer Port | Volume | Chamber material |                                                                                                                                        |
|----------------------|-----|------------------|----------------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

\* via Tablet Controller    \*\* 10 liter Media Container



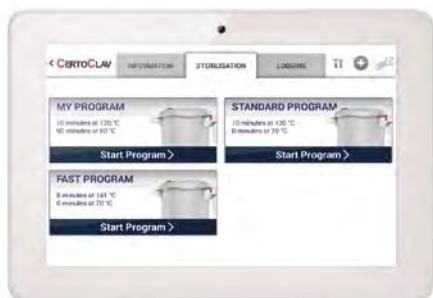
# CertoControl

## 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



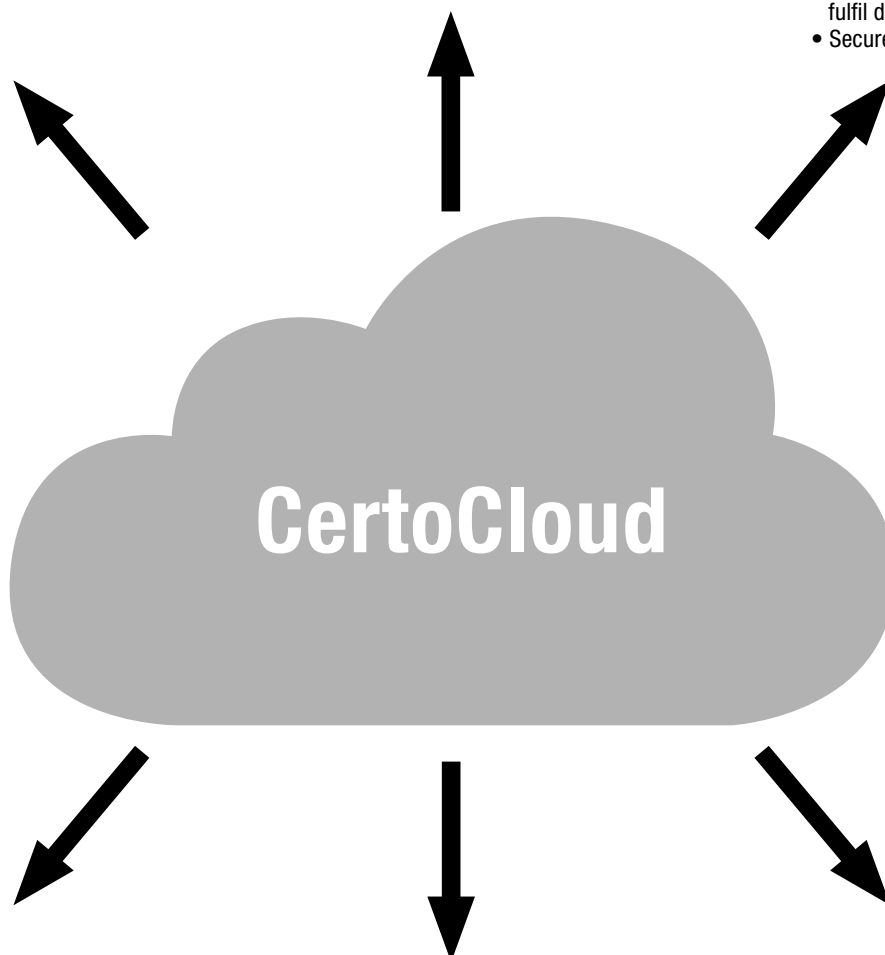
## Multi Device Management

- 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

MEDIA SENSOR  
ELECTRICAL LOCKER  
ON SCREEN VIDEOS  
LAN & WIFI



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 basekt, 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 | 230 V AC, 50-60 Hz, 1900 W                                                                                                                                                                                                               | 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 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 compatiblity EN 61326, Workplace safety directive 2004 / 40 / EG and 2008 / 46 / EG |                                                                                    |                                                                                |

## CONTACT

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**Operating instructions, technical information and operation videos:** [www.certoclav.com](http://www.certoclav.com).